



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 155SW-48LED30DMV30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000535-011  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] 155SW-48LED30DMV30-10  
 [LUMINAIRE] Catalog Number: 155SW-48LED30DMV30  
 [MORE] Wall mounted, formed white steel housing, white enamel internal reflector, plastic prismatic lens enclosure  
 [MORE] 120 white LEDs  
 [MORE] One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L LED power supply set at 588mA  
 [MORE] 120.0Vac, 60.0Hz, 0.2463A, 29.37W, 0.993PF, 7.66%THD(i)  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 9.5m.  
 [MORE] This IES file created by LightLab/LSA Report program version 3.808a.  
 [DATE] This file created: Friday, January 22, 2016 1:23:57 PM  
 [ISSUEDATE] Friday, January 22, 2016 1:23:57 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	29.3
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.07 m
Luminous Width (90-270)	0.68 m
Luminous Height	0.11 m

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6837	4892	5041
55	10323	5745	3968
65	14588	7711	2734
75	16342	10373	1694
85	18133	13109	590

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0.0</b>	191.01	191.01	191.01	191.01	191.01	191.01	191.01	191.01	191.01
<b>0.5</b>	199.55	200.28	198.35	194.05	191.76	186.86	184.70	182.96	181.55
<b>1.0</b>	207.66	208.12	204.73	197.77	191.84	183.64	179.23	176.29	174.52
<b>1.5</b>	216.53	215.84	210.29	201.05	191.91	180.65	174.43	170.31	168.23
<b>2.0</b>	226.66	225.18	216.53	204.35	191.75	177.81	170.04	164.83	162.29
<b>2.5</b>	236.20	234.43	223.63	207.48	191.85	175.23	165.73	159.59	156.86
<b>3.0</b>	243.91	242.45	231.08	210.57	192.10	172.71	161.60	154.80	152.05
<b>3.5</b>	251.31	248.98	237.57	213.84	192.21	170.43	157.98	150.57	146.95
<b>4.0</b>	257.42	255.27	243.48	217.45	192.27	168.26	154.48	145.45	141.43
<b>4.5</b>	264.65	261.07	248.48	221.33	192.39	166.01	151.17	140.13	135.68
<b>5.0</b>	274.56	268.49	253.15	225.31	192.51	163.78	147.58	134.99	130.23
<b>5.5</b>	287.91	278.60	257.61	229.20	192.72	161.56	143.75	130.15	125.76
<b>6.0</b>	300.16	291.20	262.60	232.82	192.80	159.52	139.78	126.16	121.67
<b>6.5</b>	310.08	302.38	268.48	236.43	193.04	157.57	135.94	122.43	117.41
<b>7.0</b>	319.36	311.65	275.80	239.76	193.14	155.73	132.16	118.62	112.90
<b>7.5</b>	327.51	320.16	285.14	242.60	193.46	153.95	129.00	114.56	108.14
<b>8.0</b>	335.06	327.74	294.79	245.28	193.66	152.21	126.16	110.14	103.49
<b>8.5</b>	343.76	334.93	303.11	247.89	193.78	150.43	123.28	105.87	99.15
<b>9.0</b>	352.81	342.21	310.37	250.47	194.08	148.72	120.33	101.79	95.34
<b>9.5</b>	362.70	351.25	316.96	253.14	194.35	146.87	117.40	98.15	91.47
<b>10.0</b>	370.27	359.94	322.83	255.77	194.46	144.89	114.26	94.47	87.78
<b>10.5</b>	375.66	368.30	328.27	258.52	194.81	142.88	111.11	91.09	84.21
<b>11.0</b>	379.85	373.54	333.70	261.76	195.00	140.91	107.85	87.79	80.83
<b>11.5</b>	383.20	378.28	339.44	264.94	195.22	138.96	104.80	84.43	77.46
<b>12.0</b>	384.61	381.52	345.87	268.60	195.44	137.06	101.96	81.40	74.46
<b>12.5</b>	386.50	383.82	352.29	272.93	195.82	135.29	99.21	78.37	71.80
<b>13.0</b>	390.03	384.89	359.03	278.01	195.92	133.53	96.53	75.56	69.33
<b>13.5</b>	396.05	386.59	364.86	283.14	196.23	131.89	93.89	73.07	67.23
<b>14.0</b>	403.89	390.21	368.93	288.19	196.71	130.26	91.39	70.80	65.40
<b>14.5</b>	409.19	396.16	372.12	293.19	197.04	128.50	88.84	68.81	63.71
<b>15.0</b>	413.87	403.05	374.62	297.52	197.27	127.01	86.43	67.01	62.31
<b>15.5</b>	416.21	407.89	376.12	301.42	197.65	125.46	84.06	65.40	61.09
<b>16.0</b>	413.79	412.50	376.81	305.08	198.00	123.94	81.75	63.94	60.12
<b>16.5</b>	410.43	415.01	377.54	308.67	198.43	122.60	79.57	62.73	59.44
<b>17.0</b>	406.39	413.58	378.78	312.15	198.69	121.07	77.47	61.70	58.98
<b>17.5</b>	402.81	410.10	381.15	315.54	198.99	119.62	75.52	60.90	58.68
<b>18.0</b>	400.70	406.01	385.20	318.16	199.45	118.06	73.75	60.34	58.42
<b>18.5</b>	402.25	402.40	389.75	321.17	199.85	116.60	72.05	59.96	58.20
<b>19.0</b>	406.36	398.75	393.81	324.30	200.25	115.05	70.47	59.65	58.08
<b>19.5</b>	408.01	398.20	396.59	327.02	200.71	113.74	69.06	59.40	58.05
<b>20.0</b>	406.17	400.19	398.86	329.79	201.23	112.35	67.74	59.24	57.97
<b>20.5</b>	403.03	402.70	399.88	332.94	201.58	110.98	66.55	59.07	58.04
<b>21.0</b>	402.51	403.35	399.48	335.93	202.09	109.55	65.46	58.96	58.16
<b>21.5</b>	400.50	401.57	396.75	338.68	202.48	108.35	64.47	58.88	58.26
<b>22.0</b>	395.07	398.24	394.00	341.28	202.88	107.05	63.57	58.86	58.40
<b>22.5</b>	386.67	396.61	391.15	342.80	203.18	105.80	62.82	58.90	58.54
<b>23.0</b>	377.91	393.97	388.90	343.67	203.46	104.58	62.23	58.98	58.66
<b>23.5</b>	372.39	388.97	386.06	344.26	203.91	103.41	61.76	59.08	58.78
<b>24.0</b>	371.24	383.40	383.06	344.57	204.27	102.28	61.37	59.21	58.94
<b>24.5</b>	370.62	375.84	381.12	344.72	204.57	101.19	61.06	59.31	59.16
<b>25.0</b>	368.85	370.44	379.82	344.54	204.96	100.15	60.78	59.44	59.37
<b>25.5</b>	364.34	367.77	378.79	344.04	205.26	99.07	60.54	59.58	59.69
<b>26.0</b>	360.56	366.48	377.80	344.07	205.64	98.02	60.35	59.74	59.95
<b>26.5</b>	355.72	365.38	375.82	344.57	206.07	96.89	60.12	59.97	60.27

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**CANDELA TABULATION - (Cont.)**

27.0	354.29	362.41	373.09	345.34	206.48	95.88	59.95	60.19	60.67
27.5	356.76	357.78	368.88	346.10	206.80	94.76	59.78	60.45	61.01
28.0	359.99	354.48	364.54	346.45	207.17	93.67	59.64	60.75	61.36
28.5	361.98	352.48	361.50	346.31	207.58	92.59	59.53	61.06	61.81
29.0	364.25	351.51	359.64	345.80	207.91	91.49	59.47	61.40	62.18
29.5	365.67	353.22	357.27	344.65	208.25	90.42	59.38	61.75	62.63
30.0	367.74	356.34	353.92	343.24	208.51	89.46	59.33	62.09	63.06
30.5	370.86	359.03	351.01	341.19	208.65	88.47	59.26	62.43	63.42
31.0	370.50	361.99	347.55	339.12	208.81	87.49	59.24	62.80	63.77
31.5	370.52	364.51	343.71	336.86	208.76	86.58	59.21	63.21	64.14
32.0	374.73	365.99	339.14	334.27	208.87	85.76	59.22	63.58	64.43
32.5	382.92	367.07	334.31	331.60	209.06	84.89	59.22	63.95	64.69
33.0	391.60	366.23	330.42	329.70	209.10	84.02	59.25	64.27	64.90
33.5	399.70	366.96	327.13	328.11	209.24	83.19	59.32	64.55	65.14
34.0	406.73	371.38	324.76	326.36	209.30	82.46	59.42	64.79	65.33
34.5	411.77	377.63	324.33	323.90	209.43	81.70	59.48	65.01	65.50
35.0	413.45	385.94	323.56	320.87	209.53	80.93	59.63	65.20	65.68
35.5	412.49	393.53	323.19	317.18	209.74	80.19	59.77	65.37	65.90
36.0	418.34	399.77	323.44	313.17	210.01	79.41	59.90	65.53	66.04
36.5	432.33	404.76	325.10	309.03	210.06	78.70	60.04	65.68	66.03
37.0	442.49	407.07	328.49	304.46	210.03	78.06	60.18	65.80	66.01
37.5	447.22	406.60	332.27	299.75	210.08	77.39	60.33	65.98	65.91
38.0	451.10	408.37	334.87	295.05	210.06	76.76	60.51	66.14	65.81
38.5	455.12	414.49	336.99	290.27	209.85	76.15	60.65	66.28	65.71
39.0	460.91	423.01	337.43	286.12	209.58	75.55	60.83	66.37	65.53
39.5	464.47	430.86	337.68	282.76	209.14	75.02	60.97	66.42	65.34
40.0	472.74	435.09	337.57	280.20	208.69	74.46	61.13	66.36	65.13
40.5	485.83	437.11	337.41	277.56	208.11	73.97	61.27	66.29	64.94
41.0	502.10	440.33	338.59	275.16	207.50	73.51	61.44	66.14	64.68
41.5	517.00	445.67	342.17	272.67	206.57	73.07	61.63	66.00	64.40
42.0	527.32	451.48	347.88	270.52	205.57	72.64	61.74	65.82	64.15
42.5	536.48	458.37	354.77	268.42	204.37	72.19	61.88	65.69	63.89
43.0	545.13	468.52	360.61	266.25	203.10	71.78	62.00	65.50	63.70
43.5	554.32	479.99	364.30	263.95	201.55	71.38	62.07	65.28	63.55
44.0	564.68	490.89	365.77	261.91	199.96	70.97	62.15	65.06	63.35
44.5	575.83	500.73	364.34	259.96	198.08	70.60	62.18	64.80	63.14
45.0	584.28	509.24	362.19	257.90	196.13	70.22	62.19	64.54	62.88
45.5	594.29	518.54	359.66	255.63	194.01	69.82	62.17	64.28	62.59
46.0	606.41	527.66	357.53	253.23	191.69	69.43	62.14	64.04	62.24
46.5	621.42	535.19	357.85	250.98	189.19	69.07	62.15	63.88	61.89
47.0	637.13	544.00	359.93	249.12	186.76	68.70	62.12	63.63	61.46
47.5	654.08	555.39	363.23	247.55	184.08	68.30	62.11	63.41	61.02
48.0	670.93	567.50	367.01	246.06	181.43	67.92	62.05	63.11	60.58
48.5	688.91	578.48	370.10	244.65	178.62	67.56	62.03	62.84	60.03
49.0	708.86	589.55	373.04	243.54	175.57	67.16	61.96	62.47	59.50
49.5	728.80	601.08	375.89	243.14	172.55	66.76	61.87	62.09	58.94
50.0	746.44	614.21	378.75	242.93	169.35	66.40	61.73	61.70	58.36
50.5	760.57	628.57	382.02	243.12	165.91	66.01	61.60	61.23	57.78
51.0	772.89	643.21	385.81	242.95	162.40	65.65	61.42	60.74	57.14
51.5	783.74	658.52	390.12	242.60	158.70	65.29	61.17	60.27	56.54
52.0	795.72	673.97	394.77	242.46	154.98	64.92	60.95	59.74	55.91
52.5	808.84	688.22	399.87	242.47	151.19	64.54	60.70	59.17	55.23
53.0	824.25	701.27	405.33	242.50	147.40	64.13	60.42	58.58	54.59
53.5	841.37	713.05	410.73	242.16	143.65	63.72	60.09	58.00	53.94
54.0	860.25	725.16	415.95	241.53	139.97	63.29	59.77	57.42	53.29
54.5	880.25	737.75	420.63	240.86	136.30	62.87	59.43	56.81	52.62

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<b>55.0</b>	901.60	752.59	425.73	240.09	132.59	62.41	59.06	56.18	51.99
<b>55.5</b>	923.88	768.58	430.65	239.21	129.07	61.95	58.66	55.55	51.30
<b>56.0</b>	947.15	785.90	435.83	238.32	125.46	61.47	58.29	54.93	50.69
<b>56.5</b>	970.93	803.56	441.36	237.63	121.90	60.98	57.86	54.25	49.97
<b>57.0</b>	993.92	822.50	447.10	236.99	118.47	60.45	57.37	53.59	49.24
<b>57.5</b>	1016.22	840.57	453.29	236.17	115.10	59.93	56.89	52.93	48.55
<b>58.0</b>	1038.82	859.01	459.42	235.33	111.77	59.35	56.38	52.25	47.83
<b>58.5</b>	1061.17	877.49	465.57	234.51	108.50	58.78	55.90	51.55	47.15
<b>59.0</b>	1083.73	895.90	471.47	233.59	105.29	58.16	55.34	50.87	46.50
<b>59.5</b>	1105.27	914.45	477.54	232.30	102.15	57.53	54.81	50.19	45.85
<b>60.0</b>	1128.90	933.06	483.41	230.75	99.15	56.89	54.24	49.46	45.14
<b>60.5</b>	1153.43	951.45	489.00	228.91	96.28	56.24	53.62	48.73	44.47
<b>61.0</b>	1176.14	970.71	494.75	226.90	93.43	55.56	53.00	48.00	43.75
<b>61.5</b>	1194.56	989.53	500.59	224.92	90.78	54.81	52.36	47.24	43.05
<b>62.0</b>	1210.05	1008.41	506.67	222.98	88.17	54.09	51.69	46.49	42.31
<b>62.5</b>	1222.93	1027.77	513.75	221.21	85.59	53.28	50.97	45.72	41.51
<b>63.0</b>	1234.13	1046.85	521.04	219.56	83.11	52.50	50.28	44.93	40.75
<b>63.5</b>	1242.95	1065.12	528.90	218.18	80.68	51.71	49.55	44.13	39.95
<b>64.0</b>	1250.41	1083.65	537.14	216.99	78.28	50.85	48.81	43.31	39.11
<b>64.5</b>	1256.08	1099.85	545.88	215.93	75.91	50.00	48.06	42.49	38.30
<b>65.0</b>	1262.87	1115.19	554.62	214.88	73.56	49.15	47.28	41.64	37.47
<b>65.5</b>	1272.54	1128.51	563.86	213.71	71.21	48.25	46.47	40.75	36.64
<b>66.0</b>	1280.76	1139.74	572.55	212.53	68.95	47.32	45.63	39.89	35.77
<b>66.5</b>	1288.33	1148.64	581.03	211.26	66.69	46.38	44.80	38.99	34.97
<b>67.0</b>	1296.70	1157.82	589.22	209.89	64.39	45.38	43.93	38.07	34.13
<b>67.5</b>	1302.78	1166.46	597.31	208.35	62.17	44.39	43.04	37.15	33.28
<b>68.0</b>	1307.99	1174.99	604.97	206.78	60.05	43.35	42.14	36.22	32.44
<b>68.5</b>	1312.35	1182.58	612.28	205.15	57.88	42.28	41.17	35.29	31.55
<b>69.0</b>	1315.61	1189.09	619.29	203.56	55.88	41.20	40.23	34.31	30.69
<b>69.5</b>	1317.29	1194.33	625.81	201.95	53.86	40.09	39.21	33.35	29.82
<b>70.0</b>	1318.26	1199.15	632.34	200.18	51.87	38.98	38.20	32.38	28.93
<b>70.5</b>	1319.52	1203.18	639.02	198.49	49.89	37.83	37.16	31.40	28.07
<b>71.0</b>	1321.06	1205.74	645.68	196.75	47.89	36.66	36.09	30.41	27.21
<b>71.5</b>	1324.09	1209.11	652.86	194.94	45.85	35.49	34.99	29.42	26.30
<b>72.0</b>	1328.39	1211.53	659.44	193.18	43.92	34.32	33.90	28.44	25.40
<b>72.5</b>	1332.06	1214.06	666.40	191.41	42.03	33.15	32.80	27.45	24.54
<b>73.0</b>	1336.33	1216.64	673.50	189.55	40.18	31.95	31.66	26.44	23.63
<b>73.5</b>	1340.44	1218.20	680.22	187.85	38.39	30.75	30.54	25.49	22.76
<b>74.0</b>	1345.42	1220.88	687.27	186.06	36.59	29.57	29.40	24.52	21.86
<b>74.5</b>	1352.96	1224.22	694.14	184.30	34.85	28.36	28.24	23.54	20.97
<b>75.0</b>	1359.10	1228.08	700.79	182.66	33.16	27.18	27.12	22.57	20.03
<b>75.5</b>	1366.70	1232.33	707.35	180.97	31.56	26.00	25.97	21.57	19.09
<b>76.0</b>	1375.69	1237.24	713.59	179.27	29.97	24.78	24.84	20.58	18.16
<b>76.5</b>	1382.83	1242.62	719.39	177.59	28.49	23.59	23.68	19.58	17.26
<b>77.0</b>	1387.85	1247.81	725.32	175.94	27.01	22.42	22.56	18.61	16.37
<b>77.5</b>	1392.60	1253.55	731.23	174.14	25.49	21.22	21.44	17.62	15.49
<b>78.0</b>	1398.34	1258.85	737.24	172.31	23.98	20.03	20.33	16.67	14.70
<b>78.5</b>	1402.45	1264.35	743.14	170.51	22.46	18.89	19.23	15.78	13.96
<b>79.0</b>	1405.94	1268.90	748.15	168.58	20.98	17.73	18.14	14.96	13.20
<b>79.5</b>	1410.33	1273.22	753.55	166.66	19.55	16.58	17.09	14.13	12.46
<b>80.0</b>	1411.76	1276.32	758.42	164.76	18.14	15.40	16.09	13.40	11.74
<b>80.5</b>	1412.39	1279.52	763.27	162.81	16.75	14.25	15.06	12.62	11.05
<b>81.0</b>	1412.81	1282.60	768.21	160.84	15.43	13.18	14.10	11.90	10.39
<b>81.5</b>	1412.72	1284.47	772.79	159.00	14.21	12.08	13.18	11.15	9.66
<b>82.0</b>	1412.29	1286.13	777.40	157.18	13.07	11.04	12.34	10.37	8.95
<b>82.5</b>	1412.49	1287.10	781.75	155.46	11.96	10.03	11.52	9.56	8.25

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**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	1413.54	1288.03	786.02	153.77	10.86	9.08	10.69	8.72	7.57
<b>83.5</b>	1412.49	1289.52	790.04	152.12	9.76	8.16	9.85	7.97	6.93
<b>84.0</b>	1409.99	1290.76	794.40	150.64	8.74	7.31	8.98	7.22	6.35
<b>84.5</b>	1405.08	1291.74	798.21	149.19	7.78	6.51	8.07	6.58	5.80
<b>85.0</b>	1400.57	1290.80	801.46	147.84	6.87	5.76	7.18	5.85	5.26
<b>85.5</b>	1394.94	1288.65	804.33	146.59	6.04	5.08	6.32	5.24	4.74
<b>86.0</b>	1388.76	1285.67	807.07	145.40	5.25	4.51	5.50	4.66	4.32
<b>86.5</b>	1382.52	1282.52	809.25	144.33	4.52	3.91	4.67	4.20	3.97
<b>87.0</b>	1378.60	1279.30	810.91	143.31	3.89	3.31	3.96	3.80	3.63
<b>87.5</b>	1376.67	1276.49	811.86	142.50	3.29	2.71	3.35	3.38	3.27
<b>88.0</b>	1374.55	1273.16	812.50	141.75	2.75	2.11	2.78	2.96	2.95
<b>88.5</b>	1372.68	1270.73	812.43	141.16	2.33	1.61	2.27	2.62	2.66
<b>89.0</b>	1371.85	1269.39	812.07	140.68	1.99	1.25	1.80	2.24	2.35
<b>89.5</b>	1370.04	1269.42	811.38	140.33	1.73	0.85	1.29	1.74	1.90
<b>90.0</b>	1368.95	1270.04	810.52	140.29	1.62	0.46	0.82	1.24	1.41
<b>90.5</b>	1369.12	1271.93	808.91	140.41	1.68	0.38	0.65	1.00	1.19
<b>91.0</b>	1369.11	1274.13	807.28	140.71	1.91	0.60	0.75	0.97	1.06
<b>91.5</b>	1368.82	1276.72	805.81	141.25	2.19	0.98	1.11	1.21	1.26
<b>92.0</b>	1369.13	1278.86	803.80	141.95	2.55	1.39	1.70	1.65	1.65
<b>92.5</b>	1370.89	1281.67	801.50	142.85	3.05	1.90	2.26	2.26	2.16
<b>93.0</b>	1375.11	1284.44	799.93	143.80	3.62	2.36	2.83	2.85	2.74
<b>93.5</b>	1380.23	1286.49	797.56	144.95	4.27	2.88	3.64	3.42	3.22
<b>94.0</b>	1386.25	1288.86	795.01	146.17	4.99	3.56	4.47	4.10	3.79
<b>94.5</b>	1391.51	1291.94	792.57	147.40	5.80	4.32	5.09	4.97	4.47
<b>95.0</b>	1396.93	1294.52	790.08	148.70	6.69	5.14	5.77	5.81	5.37
<b>95.5</b>	1401.25	1296.79	787.43	150.18	7.59	6.05	6.54	6.36	6.07
<b>96.0</b>	1404.88	1297.91	785.20	151.61	8.55	6.98	7.33	6.97	6.55
<b>96.5</b>	1406.76	1297.31	782.74	153.14	9.58	7.95	8.27	7.66	7.11
<b>97.0</b>	1408.85	1296.50	780.50	154.71	10.75	9.01	9.24	8.44	7.81
<b>97.5</b>	1409.70	1293.69	778.09	156.28	11.82	10.06	10.27	9.27	8.50
<b>98.0</b>	1408.46	1289.09	775.47	157.96	12.93	11.18	11.33	10.12	9.24
<b>98.5</b>	1408.61	1282.86	771.98	159.58	14.10	12.35	12.41	11.07	10.06
<b>99.0</b>	1406.77	1276.89	768.78	161.20	15.38	13.51	13.50	11.98	10.88
<b>99.5</b>	1406.42	1271.26	765.86	162.80	16.74	14.71	14.58	12.94	11.69
<b>100.0</b>	1404.68	1264.68	762.78	164.58	18.16	16.00	15.74	13.90	12.57
<b>100.5</b>	1403.14	1259.42	759.39	166.07	19.54	17.22	16.88	14.89	13.41
<b>101.0</b>	1400.45	1254.94	755.94	167.72	20.95	18.49	18.03	15.88	14.32
<b>101.5</b>	1395.16	1249.75	752.66	169.36	22.47	19.76	19.22	16.87	15.26
<b>102.0</b>	1390.69	1244.94	748.18	170.92	23.93	21.06	20.39	17.88	16.13
<b>102.5</b>	1385.49	1239.82	743.84	172.48	25.51	22.36	21.52	18.87	17.12
<b>103.0</b>	1380.47	1235.43	739.26	174.04	27.13	23.65	22.71	19.90	18.05
<b>103.5</b>	1376.26	1230.07	734.60	175.59	28.66	24.95	23.90	20.92	18.98
<b>104.0</b>	1370.90	1224.70	729.90	177.22	30.21	26.26	25.06	21.92	19.95
<b>104.5</b>	1365.58	1219.81	725.21	178.84	31.87	27.58	26.24	22.98	20.89
<b>105.0</b>	1360.73	1215.60	720.46	180.36	33.54	28.86	27.38	23.99	21.84
<b>105.5</b>	1354.72	1212.07	715.16	181.99	35.28	30.13	28.57	24.98	22.80
<b>106.0</b>	1349.74	1209.21	709.15	183.67	37.12	31.42	29.74	26.03	23.73
<b>106.5</b>	1343.56	1207.16	703.08	185.27	38.93	32.66	30.90	27.06	24.70
<b>107.0</b>	1336.52	1206.02	696.64	186.87	40.81	33.92	32.04	28.08	25.62
<b>107.5</b>	1331.24	1205.87	689.36	188.57	42.77	35.14	33.20	29.13	26.59
<b>108.0</b>	1326.28	1206.35	682.00	190.13	44.72	36.35	34.32	30.12	27.56
<b>108.5</b>	1322.96	1207.80	674.28	191.70	46.77	37.56	35.42	31.11	28.50
<b>109.0</b>	1319.55	1209.39	665.74	193.24	48.93	38.73	36.56	32.08	29.44
<b>109.5</b>	1317.02	1210.75	657.20	194.83	51.11	39.89	37.65	33.05	30.38
<b>110.0</b>	1315.13	1212.47	648.45	196.14	53.32	41.00	38.70	34.02	31.28
<b>110.5</b>	1315.12	1214.02	639.11	197.58	55.54	42.14	39.76	34.99	32.20

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**CANDELA TABULATION - (Cont.)**

111.0	1314.71	1215.30	630.37	198.81	57.80	43.24	40.77	35.92	33.13
111.5	1315.71	1216.20	621.13	200.09	60.16	44.29	41.77	36.86	34.00
112.0	1317.03	1215.17	611.75	201.33	62.64	45.36	42.74	37.82	34.95
112.5	1317.77	1213.12	603.10	202.48	65.09	46.39	43.68	38.75	35.84
113.0	1319.28	1208.11	594.71	203.62	67.64	47.41	44.58	39.70	36.72
113.5	1321.84	1200.30	586.04	204.77	70.29	48.41	45.52	40.61	37.56
114.0	1325.07	1189.51	578.13	205.91	72.93	49.37	46.37	41.52	38.47
114.5	1327.28	1176.50	570.43	207.13	75.57	50.32	47.24	42.40	39.33
115.0	1326.22	1160.27	562.34	208.28	78.29	51.25	48.08	43.29	40.21
115.5	1323.66	1142.12	554.66	209.35	80.99	52.14	48.91	44.15	41.10
116.0	1317.68	1121.41	546.79	210.50	83.69	53.00	49.70	44.97	41.89
116.5	1310.39	1099.36	538.93	211.78	86.50	53.85	50.49	45.83	42.71
117.0	1298.34	1077.35	531.09	212.83	89.26	54.71	51.25	46.64	43.53
117.5	1282.52	1055.40	523.38	214.09	92.09	55.50	51.99	47.46	44.29
118.0	1262.52	1033.39	516.03	215.58	94.95	56.30	52.68	48.27	45.06
118.5	1240.39	1012.36	508.32	217.13	97.75	57.07	53.33	49.03	45.77
119.0	1217.60	991.03	500.66	218.71	100.60	57.81	53.95	49.87	46.48
119.5	1193.60	969.07	493.13	220.24	103.49	58.54	54.57	50.64	47.17
120.0	1169.95	948.68	485.91	221.58	106.31	59.21	55.16	51.43	47.88
120.5	1145.43	929.81	478.90	222.88	109.16	59.89	55.76	52.21	48.55
121.0	1119.19	911.27	472.49	223.94	112.04	60.51	56.30	52.98	49.26
121.5	1092.18	892.99	466.50	224.99	114.91	61.11	56.83	53.75	50.01
122.0	1066.08	876.04	461.38	226.02	117.74	61.69	57.33	54.51	50.76
122.5	1040.41	859.25	456.03	227.04	120.67	62.27	57.86	55.25	51.52
123.0	1016.09	842.07	450.53	228.14	123.60	62.75	58.34	56.02	52.29
123.5	993.01	824.33	445.25	229.17	126.55	63.29	58.83	56.76	53.11
124.0	971.82	806.71	439.52	230.01	129.59	63.80	59.23	57.47	53.93
124.5	951.91	789.37	433.65	230.64	132.67	64.25	59.63	58.18	54.71
125.0	932.29	770.92	427.69	231.21	135.84	64.73	60.03	58.83	55.56
125.5	913.15	752.72	421.51	231.64	139.05	65.23	60.36	59.48	56.37
126.0	894.26	734.53	415.87	232.17	142.37	65.69	60.65	60.15	57.16
126.5	875.61	716.73	410.16	232.64	145.69	66.15	60.91	60.74	57.95
127.0	856.24	699.49	404.67	233.33	149.19	66.64	61.17	61.33	58.69
127.5	837.36	683.81	399.43	234.37	152.63	67.09	61.37	61.92	59.39
128.0	818.22	669.03	394.57	235.79	156.15	67.56	61.55	62.48	60.11
128.5	798.47	655.49	390.30	237.28	159.63	68.02	61.72	63.03	60.75
129.0	779.14	643.65	386.96	238.80	163.03	68.47	61.87	63.52	61.40
129.5	761.52	633.27	383.80	240.24	166.35	68.96	62.00	63.99	62.04
130.0	743.34	623.29	380.38	241.65	169.77	69.45	62.07	64.41	62.64
130.5	726.00	614.41	377.13	243.53	173.13	69.91	62.13	64.79	63.19
131.0	708.99	605.49	373.68	245.48	176.56	70.44	62.17	65.12	63.81
131.5	692.95	595.29	370.05	247.54	179.88	70.90	62.15	65.43	64.36
132.0	678.69	584.93	366.05	249.41	183.21	71.40	62.12	65.70	64.86
132.5	666.23	573.99	361.78	251.40	186.49	71.91	62.07	65.94	65.33
133.0	655.27	561.41	357.57	252.89	189.86	72.45	62.00	66.17	65.69
133.5	646.17	548.08	353.92	254.32	193.21	73.02	61.92	66.40	66.00
134.0	637.94	534.90	350.26	255.71	196.55	73.59	61.80	66.54	66.29
134.5	627.91	522.53	346.76	256.95	199.87	74.16	61.71	66.67	66.49
135.0	616.97	512.09	343.74	258.20	203.15	74.70	61.60	66.79	66.68
135.5	606.12	502.55	341.27	259.35	206.24	75.32	61.48	66.88	66.86
136.0	591.98	493.36	339.42	260.90	209.30	75.93	61.37	66.94	66.97
136.5	576.38	484.05	338.24	262.46	212.10	76.55	61.27	67.00	67.14
137.0	560.96	474.82	337.37	264.24	214.71	77.18	61.19	67.04	67.24
137.5	545.13	463.83	336.05	265.94	217.26	77.90	61.04	67.04	67.28
138.0	532.32	453.13	334.70	267.72	219.56	78.55	60.89	67.03	67.30
138.5	521.08	442.93	333.91	269.89	221.70	79.28	60.72	67.01	67.30

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**CANDELA TABULATION - (Cont.)**

139.0	510.04	433.96	333.18	272.65	223.61	80.03	60.53	66.95	67.22
139.5	499.55	427.17	332.11	275.30	225.49	80.76	60.33	66.88	67.16
140.0	486.26	421.92	331.55	277.89	227.25	81.53	60.12	66.79	67.08
140.5	471.15	417.82	332.01	280.61	228.84	82.34	59.90	66.67	67.00
141.0	458.76	414.53	334.12	283.18	230.28	83.14	59.69	66.51	66.95
141.5	447.89	411.27	336.28	285.80	231.60	83.92	59.49	66.30	66.86
142.0	439.32	407.18	338.02	289.14	232.89	84.76	59.30	66.05	66.78
142.5	433.96	400.34	340.20	292.26	234.20	85.65	59.09	65.79	66.69
143.0	429.76	393.23	341.16	295.44	235.33	86.52	58.95	65.53	66.51
143.5	427.73	385.75	340.85	298.67	236.32	87.45	58.78	65.25	66.30
144.0	423.82	379.08	339.35	301.49	237.21	88.38	58.65	64.98	66.07
144.5	418.14	374.40	337.40	304.36	238.09	89.39	58.59	64.74	65.81
145.0	408.71	372.85	335.72	307.83	238.80	90.39	58.51	64.52	65.49
145.5	398.94	372.37	334.04	311.62	239.51	91.37	58.45	64.28	65.19
146.0	390.25	371.23	332.69	316.01	240.14	92.43	58.41	64.10	64.88
146.5	382.44	369.56	332.12	320.80	240.77	93.50	58.39	63.86	64.56
147.0	378.24	366.69	332.29	325.90	241.16	94.50	58.34	63.62	64.30
147.5	377.31	363.18	333.16	331.10	241.73	95.45	58.31	63.41	64.11
148.0	377.97	363.95	334.31	336.32	242.22	96.53	58.33	63.15	63.85
148.5	376.70	367.68	335.63	341.59	242.57	97.59	58.34	62.85	63.62
149.0	375.05	371.36	336.67	346.18	242.84	98.69	58.40	62.52	63.39
149.5	372.11	374.70	336.92	350.22	243.20	99.88	58.45	62.14	63.15
150.0	371.54	375.88	335.98	353.22	243.48	101.07	58.57	61.75	62.90
150.5	375.63	374.87	335.33	355.21	243.71	102.28	58.73	61.34	62.66
151.0	379.00	371.43	335.25	356.50	243.94	103.56	58.90	60.98	62.28
151.5	381.33	368.42	335.77	357.34	243.98	104.92	59.16	60.69	61.97
152.0	382.65	363.92	337.10	357.59	243.80	106.36	59.45	60.40	61.50
152.5	381.55	358.72	340.62	357.69	243.59	107.74	59.81	60.17	61.11
153.0	378.09	356.52	344.97	357.86	243.39	109.24	60.24	59.93	60.73
153.5	373.08	354.87	349.21	358.04	243.13	110.81	60.75	59.68	60.41
154.0	367.13	352.72	353.53	358.03	242.68	112.47	61.32	59.45	60.12
154.5	361.64	351.52	358.29	357.81	242.40	114.12	61.96	59.21	59.85
155.0	359.71	352.79	363.94	357.45	242.11	115.75	62.65	58.94	59.58
155.5	356.93	353.84	369.23	357.30	241.76	117.43	63.50	58.75	59.28
156.0	354.30	352.72	373.98	357.25	241.51	119.08	64.40	58.58	59.06
156.5	354.47	353.03	379.32	357.28	241.27	120.83	65.37	58.49	58.70
157.0	357.27	355.36	384.39	357.73	240.94	122.60	66.51	58.44	58.42
157.5	356.88	357.86	389.71	358.25	240.59	124.37	67.71	58.48	58.15
158.0	355.96	362.27	394.40	358.76	240.30	126.18	69.05	58.59	57.96
158.5	359.05	369.40	400.27	359.03	240.05	127.95	70.46	58.80	57.86
159.0	361.90	376.77	405.35	358.81	239.80	129.70	71.95	59.11	57.77
159.5	367.02	381.14	409.87	358.19	239.49	131.55	73.50	59.56	57.83
160.0	375.12	386.47	413.08	357.42	239.33	133.40	75.27	60.10	57.97
160.5	382.95	392.78	414.80	356.39	239.06	135.24	77.06	60.75	58.25
161.0	387.42	397.91	415.16	355.26	238.83	137.03	78.92	61.55	58.64
161.5	394.02	403.59	414.85	353.66	238.66	138.88	80.99	62.53	59.21
162.0	399.96	409.47	413.24	351.87	238.57	140.77	83.08	63.67	59.85
162.5	405.26	414.59	410.83	349.68	238.54	142.65	85.38	64.99	60.69
163.0	410.94	419.40	407.43	347.66	238.42	144.70	87.76	66.55	61.74
163.5	416.72	422.22	403.58	345.57	238.22	146.72	90.36	68.23	62.95
164.0	421.30	425.23	400.07	343.09	238.21	148.66	93.09	70.10	64.39
164.5	424.61	425.26	396.67	340.22	237.96	150.77	96.07	72.19	66.15
165.0	426.75	424.36	393.41	337.42	237.83	152.72	99.11	74.43	68.04
165.5	428.12	422.85	390.38	334.78	237.68	154.79	102.36	76.82	70.18
166.0	425.93	418.64	387.34	332.32	237.48	156.97	105.69	79.42	72.54
166.5	424.39	415.84	384.25	329.92	237.29	159.11	109.02	82.14	75.07



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**CANDELA TABULATION - (Cont.)**

167.0	420.34	411.60	382.22	327.55	237.02	161.19	112.59	85.16	77.81
167.5	417.18	407.76	379.95	324.79	236.84	163.47	116.13	88.46	80.84
168.0	412.77	402.46	377.85	322.02	236.78	165.56	119.87	92.17	84.12
168.5	408.59	397.42	374.38	318.89	236.46	167.57	123.69	96.26	87.67
169.0	402.56	391.97	370.84	315.48	236.25	169.68	127.75	100.57	91.80
169.5	396.67	386.83	366.15	311.90	236.29	171.81	131.48	104.92	96.34
170.0	390.90	383.05	360.52	308.05	236.15	174.23	135.44	109.62	100.98
170.5	385.90	379.76	354.97	303.86	235.92	176.75	139.41	114.45	105.88
171.0	382.01	375.42	349.58	299.74	235.74	179.39	143.25	119.45	111.02
171.5	377.74	370.65	343.69	295.56	235.42	182.16	147.16	124.68	116.29
172.0	372.02	363.92	337.95	291.41	235.24	185.05	151.38	129.98	121.94
172.5	365.45	356.24	333.46	287.41	235.02	187.91	155.66	135.39	127.71
173.0	356.94	349.45	328.74	283.18	234.73	190.58	160.16	140.64	133.64
173.5	349.39	341.76	322.46	278.95	234.61	193.50	164.50	146.08	139.18
174.0	341.36	334.81	315.84	274.51	234.50	196.63	168.49	151.60	145.02
174.5	333.90	329.11	308.78	270.26	234.40	199.78	172.78	157.49	150.92
175.0	327.68	321.49	301.10	266.28	234.34	202.95	177.62	163.41	157.59
175.5	318.90	312.86	293.52	262.60	234.32	206.06	183.48	168.66	163.65
176.0	309.76	303.38	285.81	259.11	234.24	209.13	188.95	174.71	169.36
176.5	299.19	293.35	278.14	255.59	234.07	212.26	194.66	182.20	176.54
177.0	288.33	283.64	270.54	252.09	233.97	215.24	200.63	189.68	184.75
177.5	277.83	273.98	263.83	248.59	234.02	218.13	206.59	197.57	192.72
178.0	267.70	264.82	257.59	245.01	234.23	221.26	212.69	205.50	201.58
178.5	258.84	256.79	250.86	241.70	234.23	224.30	218.21	213.21	210.08
179.0	249.60	248.03	244.38	238.56	234.17	227.19	224.09	220.52	217.90
179.5	240.90	240.23	238.72	235.88	234.10	230.10	229.57	228.26	226.06
180.0	233.79	233.79	233.79	233.79	233.79	233.79	233.79	233.79	233.79

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED30DMV30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	82.52	N.A.	2.20
0-30	183.08	N.A.	4.90
0-40	316.15	N.A.	8.40
0-60	745.31	N.A.	19.80
0-80	1469.39	N.A.	39.00
0-90	1872.5	N.A.	49.60
10-90	1852.96	N.A.	49.10
20-40	233.63	N.A.	6.20
20-50	412.90	N.A.	10.90
40-70	767.46	N.A.	20.30
60-80	724.08	N.A.	19.20
70-80	385.77	N.A.	10.20
80-90	403.11	N.A.	10.70
90-110	789.05	N.A.	20.90
90-120	1135.47	N.A.	30.10
90-130	1388.54	N.A.	36.80
90-150	1704.95	N.A.	45.20
90-180	1899.76	N.A.	50.40
110-180	1110.71	N.A.	29.40
0-180	3772.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.54
10-20	62.98
20-30	100.56
30-40	133.07
40-50	179.26
50-60	249.89
60-70	338.31
70-80	385.77
80-90	403.11
90-100	402.18
100-110	386.87
110-120	346.42
120-130	253.07
130-140	181.25
140-150	135.16
150-160	102.88
160-170	68.95
170-180	22.97

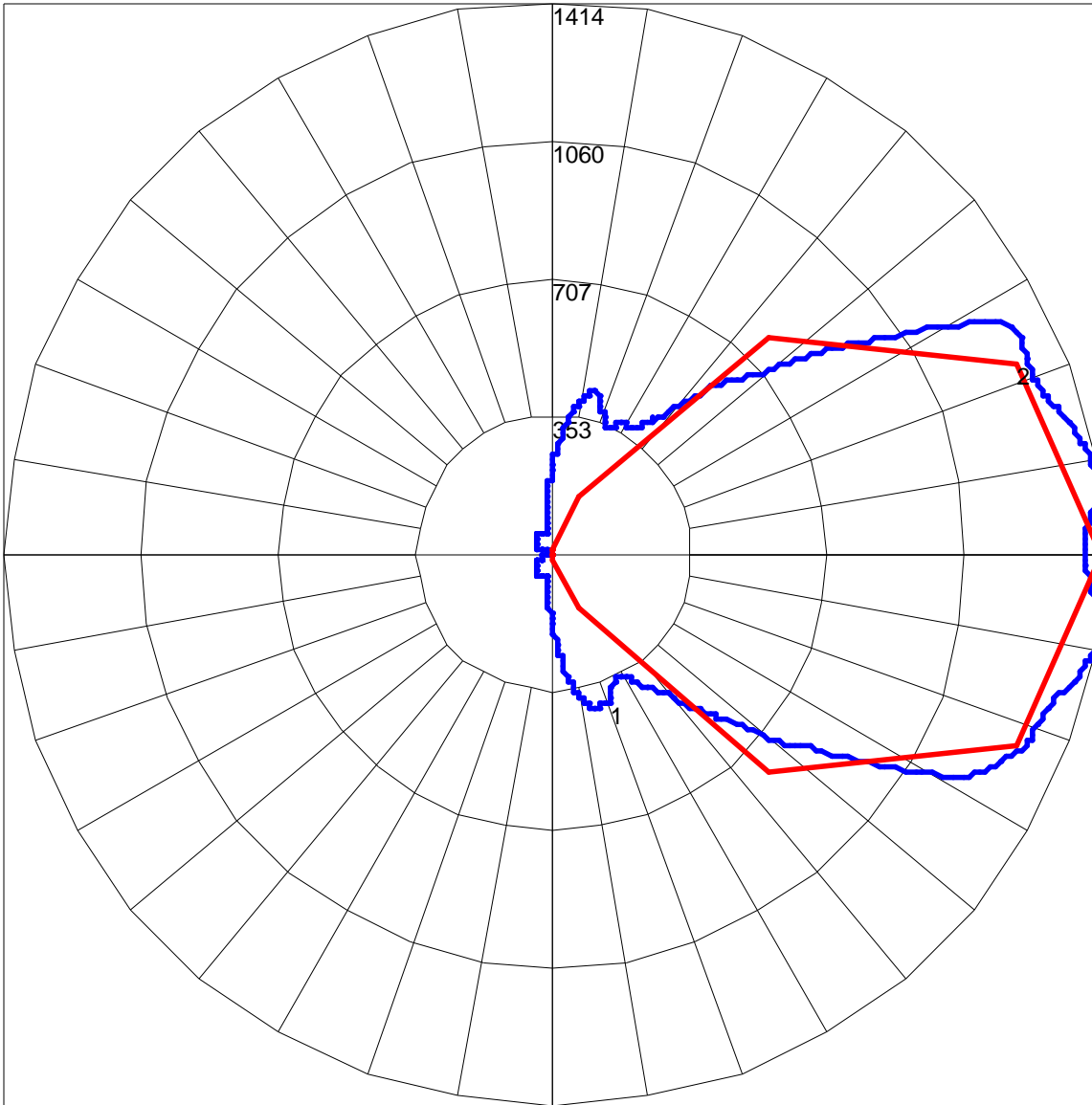
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED30DMV30.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	86	80	74	84	78	73	68	65	61	57	52	49	46	41	38	36	31
2	82	72	64	57	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	74	62	52	45	67	56	48	41	46	39	34	36	31	27	28	24	21	16
4	67	54	44	37	60	49	40	34	40	33	28	32	26	22	24	20	17	13
5	61	47	38	31	55	43	34	28	35	28	23	28	23	18	21	17	14	10
6	56	42	33	26	50	38	30	24	31	25	20	25	20	16	19	15	12	8
7	51	37	29	22	47	34	26	20	28	22	17	22	17	13	17	13	10	7
8	48	34	25	19	43	31	23	18	26	19	15	20	15	12	16	12	9	6
9	44	31	22	17	40	28	21	16	23	17	13	19	14	10	14	10	8	5
10	41	28	20	15	37	26	19	14	21	16	11	17	12	9	13	10	7	5

POLAR GRAPH



Maximum Candela = 1413.54 Located At Horizontal Angle = 0, Vertical Angle = 83  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (83) (Through Max. Cd.)