



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-LO-CW.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507504R02  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 6/18/2015  
 [MANUFACT] PRUDENTIAL LTG.  
 [LUMCAT] BIO-LIN-LED4-LO-CW  
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE  
 [MORE] LEDS WITH OPTICS  
 [BALLASTCAT] OSRAM OPTOTRONIC OT30W/PRG1050C/UNV/DIM/L  
 [BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60Hz. OUTPUT: 30W, 10-55VDC, 350-1050mA  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC, 17.38W  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	17.38
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	93.644	97.163	105.708	123.406	149.856	187.473	225.791	236.555	202.216	138.092
<b>100</b>	553.943	565.892	581.233	601.898	609.327	577.438	488.393	366.447	244.927	141.461
<b>105</b>	671.174	668.081	650.060	620.298	568.123	495.236	410.665	327.048	246.583	169.061
<b>110</b>	662.147	656.592	638.077	604.371	552.609	487.485	413.678	338.847	270.365	208.759
<b>115</b>	632.132	625.807	610.236	577.300	534.106	481.355	419.980	357.811	299.368	250.228
<b>120</b>	613.387	608.534	592.894	566.766	529.529	484.161	433.320	380.500	329.900	286.821
<b>125</b>	602.956	598.920	583.797	561.257	530.633	492.200	448.649	402.189	358.846	319.688
<b>130</b>	590.444	586.845	574.528	552.828	526.251	494.569	456.170	417.266	379.833	346.817
<b>135</b>	568.813	564.937	554.518	535.888	513.532	486.047	454.169	421.889	391.448	365.194
<b>140</b>	535.635	531.081	520.961	507.023	489.877	468.153	443.267	419.796	396.669	376.567
<b>145</b>	495.776	492.694	485.150	474.996	462.553	447.062	430.663	414.000	397.313	381.719
<b>150</b>	461.069	458.666	453.985	447.902	440.565	430.560	419.635	407.778	395.945	383.030
<b>155</b>	436.965	436.160	432.963	428.570	423.798	417.588	409.975	401.246	392.403	382.432
<b>160</b>	417.772	418.634	415.805	413.264	410.101	405.835	400.303	394.381	388.125	381.202
<b>165</b>	402.040	401.948	400.361	398.716	396.543	394.059	390.735	387.170	383.513	379.741
<b>170</b>	389.631	389.160	387.458	387.262	386.308	385.411	384.180	382.478	381.133	379.580
<b>175</b>	382.639	381.374	381.823	381.133	380.891	380.949	381.259	380.903	380.673	380.270
<b>180</b>	379.500	379.500	379.500	379.500	379.500	379.500	379.500	379.500	379.500	379.500

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	81.880	51.508	37.409	31.222	28.830	28.543	26.346	19.757	16.399
<b>100</b>	104.995	78.407	68.402	64.572	61.444	55.936	48.737	40.698	36.650
<b>105</b>	137.632	112.608	100.671	94.553	89.642	82.903	73.370	64.526	60.766
<b>110</b>	170.303	150.167	137.229	129.904	122.590	112.056	100.234	91.195	87.607
<b>115</b>	211.922	190.486	178.986	168.417	156.170	141.806	128.869	119.956	116.713
<b>120</b>	254.023	232.196	215.073	200.295	186.334	170.648	157.377	148.821	145.797
<b>125</b>	289.754	267.938	250.205	233.254	213.601	197.708	186.426	178.342	175.731
<b>130</b>	320.482	299.241	280.715	262.269	243.995	226.297	214.314	208.012	205.723
<b>135</b>	342.953	323.437	305.129	286.246	268.329	253.195	241.615	234.899	232.967
<b>140</b>	357.776	339.894	322.552	304.520	288.339	274.643	264.776	259.014	257.381
<b>145</b>	365.608	350.209	334.339	318.906	305.244	294.216	286.235	281.876	280.657
<b>150</b>	369.978	356.868	343.769	331.349	320.988	312.581	307.096	303.910	303.013
<b>155</b>	372.059	362.480	352.383	343.827	336.628	330.349	326.577	324.875	324.277
<b>160</b>	374.106	367.804	361.295	355.557	350.750	346.253	344.471	343.298	343.252
<b>165</b>	376.061	372.036	368.920	365.665	362.652	360.272	359.329	358.432	358.018
<b>170</b>	377.361	376.291	374.923	373.163	371.691	369.943	370.058	369.702	369.863
<b>175</b>	379.511	379.270	378.407	377.821	377.361	375.969	376.222	376.418	376.142
<b>180</b>	379.500	379.500	379.500	379.500	379.500	379.500	379.500	379.500	379.500

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	440.84	N.A.	22.70
90-120	762.86	N.A.	39.20
90-130	1085.98	N.A.	55.80
90-150	1624.49	N.A.	83.50
90-180	1944.73	N.A.	100.00
110-180	1503.89	N.A.	77.30
0-180	1944.73	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	130.78
100-110	310.06
110-120	322.03
120-130	323.12
130-140	297.20
140-150	241.30
150-160	176.34
160-170	107.69
170-180	36.21

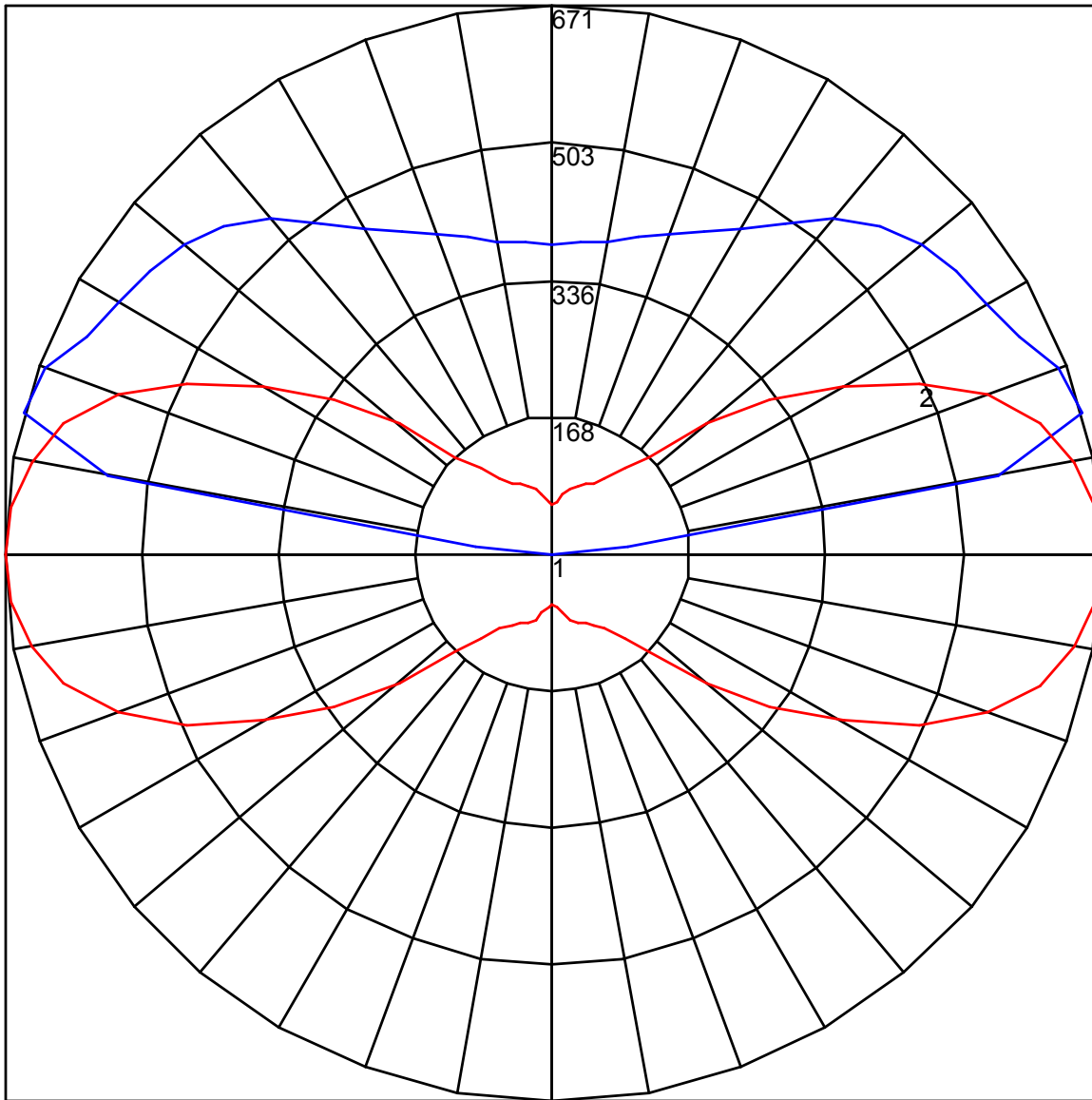
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 671.174 Located At Horizontal Angle = 0, Vertical Angle = 105  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)