



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED4-LO-SYM.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507503R02  
 [TESTLAB] .  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] BIO2-LIN-LED4-LO-SYM  
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST]  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1747
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	16
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

### 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**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<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>	20.048	20.037	20.070	20.115	20.182	20.294	20.474	20.664	20.899	21.168
<b>100</b>	44.901	44.968	45.147	45.394	45.864	46.368	46.962	47.690	48.552	49.594
<b>105</b>	76.686	76.787	77.090	77.840	78.602	79.576	80.987	82.522	84.347	86.520
<b>110</b>	113.691	113.736	114.285	115.338	116.480	118.350	120.310	122.987	125.933	129.147
<b>115</b>	154.504	154.392	155.288	156.408	158.334	160.642	163.811	167.261	171.326	175.605
<b>120</b>	195.563	195.507	196.594	198.106	200.413	203.560	207.290	211.210	216.675	222.006
<b>125</b>	240.733	240.576	241.797	243.768	246.546	250.264	254.934	260.109	265.854	271.835
<b>130</b>	292.790	292.522	293.731	296.946	299.421	303.968	309.064	314.978	321.238	328.227
<b>135</b>	349.899	349.574	350.840	354.446	356.933	362.622	367.528	374.886	380.531	388.147
<b>140</b>	411.298	410.939	412.026	415.005	419.037	423.898	432.163	436.061	443.173	451.842
<b>145</b>	476.650	476.090	477.008	479.640	486.450	488.790	494.346	503.272	507.584	515.222
<b>150</b>	543.637	543.178	543.738	546.347	550.637	557.446	559.933	565.645	572.645	581.146
<b>155</b>	609.594	609.482	609.851	611.968	615.563	619.797	626.562	628.331	633.931	639.408
<b>160</b>	671.563	671.642	671.563	673.221	675.842	678.754	682.349	688.106	692.709	694.008
<b>165</b>	725.480	725.413	725.066	726.208	727.888	729.747	732.144	734.530	737.296	740.533
<b>170</b>	767.805	767.536	767.043	767.502	768.264	769.306	770.706	771.680	773.091	774.278
<b>175</b>	794.528	794.226	793.890	793.912	794.181	794.797	795.693	795.962	796.342	796.499
<b>180</b>	803.040	803.040	803.040	803.040	803.040	803.040	803.040	803.040	803.040	803.040

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

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<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>	21.459	21.795	22.198	22.658	23.106	23.542	23.923	24.158	24.259
<b>100</b>	50.658	51.923	53.256	54.622	55.843	56.907	57.792	58.419	58.654
<b>105</b>	88.816	91.168	93.621	96.062	98.325	100.240	101.752	102.827	103.230
<b>110</b>	132.664	136.170	139.787	143.304	146.552	149.251	151.379	152.858	153.418
<b>115</b>	180.208	184.834	189.526	194.130	198.341	201.757	204.400	206.270	206.931
<b>120</b>	227.461	233.094	238.885	244.574	249.603	253.546	256.704	258.944	259.717
<b>125</b>	278.331	284.995	291.850	298.290	303.923	308.448	312.066	314.653	315.571
<b>130</b>	336.314	343.190	350.851	358.266	363.899	368.906	372.826	375.626	376.667
<b>135</b>	396.368	404.163	412.104	420.213	425.566	430.640	434.750	437.674	438.760
<b>140</b>	459.010	467.163	476.638	482.070	488.096	492.890	496.978	499.834	500.797
<b>145</b>	522.984	532.582	537.746	544.197	549.797	554.131	557.872	560.538	561.445
<b>150</b>	585.502	592.379	598.562	604.117	610.075	615.160	617.400	618.710	619.315
<b>155</b>	645.131	652.971	657.227	659.512	663.062	665.918	668.371	670.242	670.914
<b>160</b>	697.749	701.725	705.174	708.187	710.718	712.690	714.739	716.666	717.338
<b>165</b>	744.912	747.802	749.000	748.854	749.258	749.762	750.814	751.744	752.058
<b>170</b>	775.354	776.653	777.470	777.728	777.840	777.930	778.534	779.206	779.374
<b>175</b>	796.443	796.880	796.768	796.051	795.458	794.853	794.965	795.346	795.469
<b>180</b>	803.040	803.040	803.040	803.040	803.040	803.040	803.040	803.040	803.040

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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	120.04	N.A.	6.90
90-120	296.18	N.A.	17.00
90-130	543.40	N.A.	31.10
90-150	1169.32	N.A.	66.90
90-180	1746.72	N.A.	100.00
110-180	1626.68	N.A.	93.10
0-180	1746.72	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	25.55
100-110	94.49
110-120	176.14
120-130	247.22
130-140	302.40
140-150	323.52
150-160	294.29
160-170	207.88
170-180	75.23

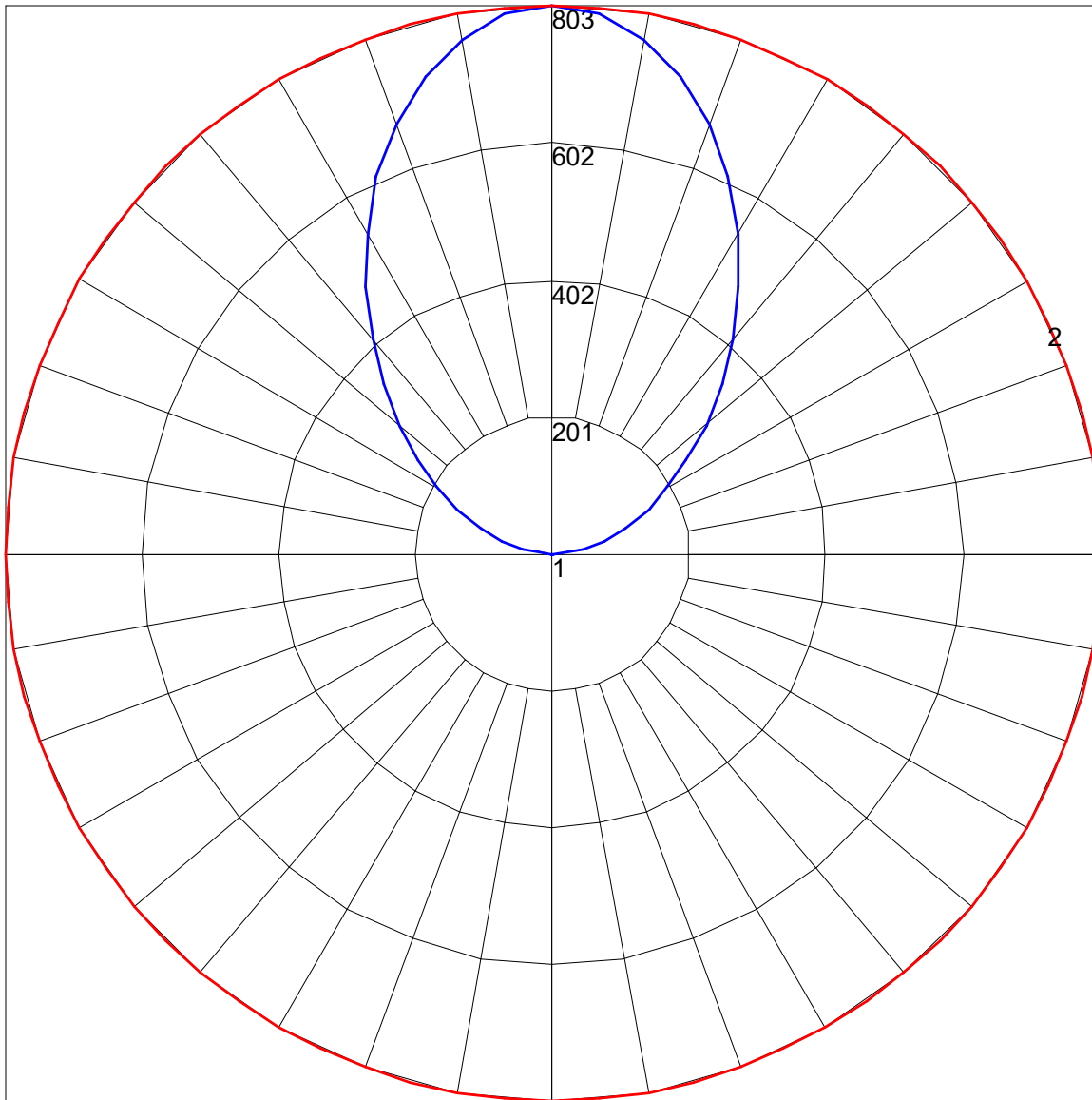
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 803.04 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)