



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED35-LO-04-ABW-TMW-D1X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412303R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 5/5/2014
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-LIN-LED35-LO-04-ABW
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.
 [MORE] DIFFUSED LENS.
 [BALLASTCAT] OSRAM OPTOTRONIC OT30W/PRG1050C/UNV/DIM/L
 [BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60HZ. OUTPUT: 10-55VDC, 0.35-1.05A.
 [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, 19.04W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 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	3921	5268	4869
55	3526	4698	3626
65	3123	3952	2765
75	2612	2889	2014
85	2036	1750	1416

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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>
0	571.771	571.771	571.771	571.771	571.771	571.771	571.771	571.771	571.771	571.771
5	566.315	566.573	567.125	568.063	569.351	571.568	573.887	576.113	578.027	580.014
10	555.376	556.002	557.906	561.108	565.064	570.464	576.417	582.388	588.064	593.731
15	537.887	539.102	543.104	548.964	556.683	566.159	576.159	586.058	595.470	604.238
20	513.976	516.065	522.100	531.410	543.131	556.315	570.069	582.774	594.384	604.596
25	484.527	487.398	495.595	508.125	523.204	539.488	555.579	569.922	581.909	591.652
30	449.963	453.597	463.855	479.044	496.736	515.007	532.275	546.618	557.842	566.297
35	411.360	415.582	427.184	444.332	463.616	482.926	499.974	513.654	523.655	530.978
40	369.371	373.888	386.363	404.193	423.991	443.247	459.862	472.512	481.666	488.345
45	325.846	330.685	343.381	359.950	379.150	397.348	412.914	424.598	432.906	437.810
50	281.318	286.322	299.690	316.508	330.142	346.895	361.118	371.340	377.356	379.445
55	237.664	241.886	251.657	265.871	280.388	293.416	306.029	317.253	317.943	316.719
60	199.309	201.581	209.742	221.435	235.244	246.312	257.250	265.015	263.782	259.688
65	155.130	159.178	163.364	172.564	183.614	193.255	200.394	203.338	202.326	196.273
70	117.015	118.376	121.348	127.061	134.780	140.042	144.339	146.547	144.449	138.386
75	79.460	80.040	81.632	85.569	86.765	91.190	94.272	94.788	92.478	87.888
80	47.297	46.524	47.500	46.248	48.364	50.214	51.152	50.812	49.128	46.561
85	20.856	19.973	18.970	19.026	19.274	19.440	19.394	19.108	18.584	17.922
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0	571.771	571.771	571.771	571.771	571.771	571.771	571.771	571.771	571.771
5	581.882	583.630	585.378	586.555	587.484	588.340	589.067	589.748	590.640
10	598.929	603.640	607.964	611.450	614.459	616.538	618.093	619.914	621.055
15	611.892	618.461	624.294	628.802	632.794	635.361	637.026	638.940	639.225
20	612.941	619.528	624.901	629.142	632.261	634.009	635.214	636.585	636.410
25	598.984	604.247	608.525	611.478	613.392	614.385	614.882	615.572	616.106
30	572.157	576.463	579.913	582.213	583.630	584.320	584.485	585.396	585.755
35	536.259	540.031	543.030	544.346	544.548	544.152	543.748	543.932	544.051
40	492.586	494.868	495.374	493.497	490.756	487.499	485.134	483.764	483.212
45	439.438	437.929	433.780	427.156	420.008	413.531	408.738	405.895	404.662
50	376.850	370.659	361.183	350.722	340.658	331.798	324.999	321.227	320.335
55	309.838	299.368	287.215	274.951	264.141	255.696	248.750	244.840	244.407
60	250.286	239.310	225.869	214.581	204.930	196.466	191.434	188.701	188.407
65	186.585	175.784	165.306	156.060	149.233	143.465	140.024	137.568	137.328
70	130.336	122.020	114.319	108.183	103.215	99.811	97.428	95.901	95.551
75	82.322	77.087	72.395	68.632	65.844	63.876	62.394	61.576	61.263
80	43.718	41.262	39.109	37.407	36.119	35.126	34.436	34.049	33.893
85	17.222	16.588	16.036	15.557	15.171	14.840	14.637	14.518	14.508
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.76	N.A.	13.60
0-30	486.62	N.A.	29.60
0-40	802.53	N.A.	48.90
0-60	1364.66	N.A.	83.10
0-80	1620.3	N.A.	98.70
0-90	1641.57	N.A.	100.00
10-90	1585.97	N.A.	96.60
20-40	578.77	N.A.	35.30
20-50	889.40	N.A.	54.20
40-70	732.66	N.A.	44.60
60-80	255.64	N.A.	15.60
70-80	85.12	N.A.	5.20
80-90	21.26	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1641.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.59
10-20	168.16
20-30	262.86
30-40	315.91
40-50	310.63
50-60	251.50
60-70	170.53
70-80	85.12
80-90	21.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

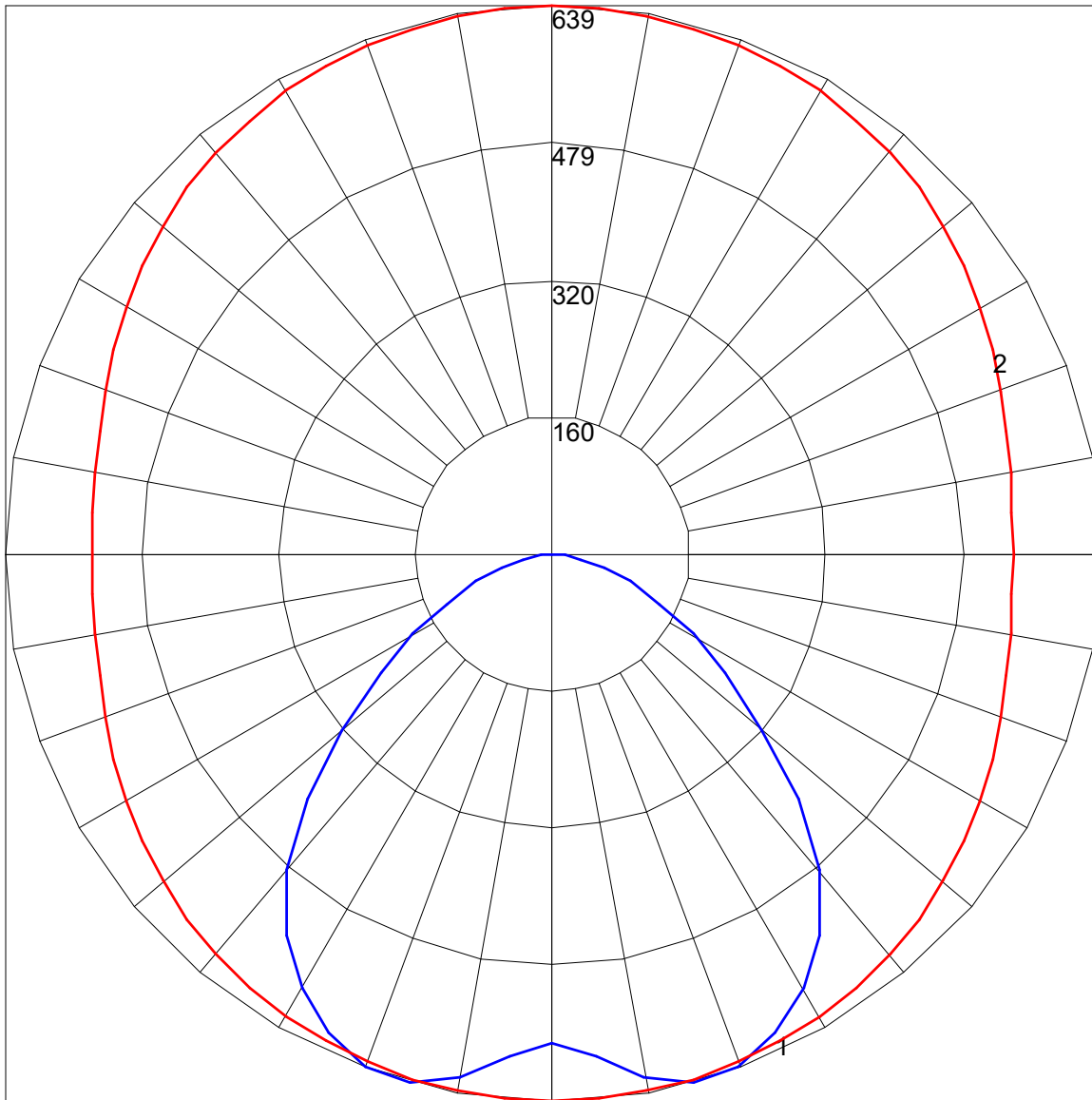
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 639.225 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)