



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032011904.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L032011904
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 4/6/2020
 [MANUFAC] LUX Dynamics
 [LUMCAT] 360P-4-D-835-U1-WP
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM-1 L(2 DRIVERS)
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120.0VAC, 106.76W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	106.76
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.85 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	40192	35045	33811
55	40742	32608	31605
65	40627	30114	29702
75	36716	27111	28552
85	31996	25145	28478

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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	3234	3234	3234	3234	3234	3234	3234	3234	3234	3234
5	3206	3209	3210	3207	3201	3203	3214	3228	3235	3237
10	3165	3168	3170	3166	3160	3163	3175	3190	3197	3199
15	3097	3100	3102	3099	3093	3098	3112	3127	3133	3136
20	3001	3004	3007	3004	3000	3007	3022	3037	3044	3046
25	2882	2884	2888	2885	2882	2892	2908	2922	2928	2932
30	2736	2740	2743	2743	2741	2752	2769	2781	2788	2793
35	2566	2573	2578	2577	2577	2591	2608	2620	2628	2637
40	2377	2384	2388	2389	2393	2408	2425	2439	2450	2460
45	2170	2175	2179	2179	2188	2206	2226	2239	2248	2260
50	1981	1983	1981	1981	1992	2012	2026	2031	2037	2044
55	1796	1796	1790	1785	1791	1801	1811	1817	1825	1834
60	1581	1580	1571	1572	1580	1582	1582	1591	1604	1618
65	1334	1332	1327	1335	1343	1347	1350	1357	1376	1394
70	1065	1063	1068	1081	1094	1103	1114	1124	1142	1168
75	756	758	766	781	799	819	841	873	909	947
80	476	481	494	517	545	577	619	662	703	744
85	247	254	275	311	349	388	435	480	522	566
90	89	111	146	181	217	258	306	353	396	441
95	89	99	120	149	180	214	255	296	335	378
100	101	111	131	150	170	193	224	261	296	333
105	120	125	151	170	186	201	215	238	265	293
110	147	150	172	198	214	224	237	244	255	276
115	152	156	160	197	218	231	236	242	253	269
120	138	143	143	163	198	214	222	227	238	251
125	115	119	116	119	156	181	196	210	225	235
130	83	86	86	82	85	138	165	188	204	218
135	39	44	49	50	58	77	131	155	171	186
140	15	18	24	28	31	39	56	111	138	159
145	0	0	0	0	29	36	44	54	95	132
150	0	0	0	0	0	34	41	49	56	64
155	0	0	0	0	0	0	33	38	45	51
160	0	0	0	0	0	0	0	0	32	36
165	0	0	0	0	0	0	0	0	35	37
170	0	0	0	0	0	0	0	0	26	28
175	0	0	0	0	0	0	0	0	17	17
180	0	0	0	0	0	0	0	0	0	0

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	3234	3234	3234	3234	3234	3234	3234	3234	3234
5	3235	3231	3228	3231	3238	3235	3231	3228	3222
10	3199	3195	3193	3197	3202	3200	3197	3194	3187
15	3136	3133	3131	3137	3143	3140	3137	3135	3129
20	3047	3045	3045	3051	3057	3055	3053	3050	3045
25	2933	2933	2936	2941	2947	2947	2946	2944	2937
30	2796	2800	2807	2816	2822	2821	2821	2819	2814
35	2645	2648	2658	2665	2669	2670	2670	2669	2663
40	2469	2477	2487	2495	2497	2499	2502	2501	2493
45	2268	2282	2294	2304	2309	2314	2318	2317	2311
50	2059	2075	2092	2103	2111	2118	2123	2123	2118
55	1845	1861	1877	1892	1904	1914	1921	1924	1919
60	1632	1645	1661	1680	1695	1707	1717	1719	1718

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CANDELA TABULATION - (Cont.)

65	1413	1428	1445	1470	1489	1504	1517	1520	1522
70	1195	1216	1241	1270	1293	1310	1324	1330	1334
75	979	1013	1046	1077	1103	1123	1137	1142	1148
80	784	824	859	891	920	939	953	962	966
85	611	652	689	722	748	769	784	794	796
90	486	527	567	603	630	648	662	672	675
95	421	460	495	528	553	572	587	596	598
100	370	407	441	472	497	515	530	540	542
105	322	352	383	414	437	455	468	476	482
110	296	314	334	358	379	395	407	414	419
115	282	292	304	319	335	349	359	364	367
120	266	276	284	297	309	319	327	330	331
125	244	253	265	279	291	300	307	309	309
130	231	240	250	260	269	277	283	285	285
135	200	215	237	249	257	263	268	269	269
140	177	194	210	220	228	236	242	245	248
145	151	167	181	193	202	209	216	218	222
150	98	125	147	159	167	174	180	182	186
155	56	60	66	83	99	112	117	124	129
160	40	46	49	52	55	57	58	59	59
165	39	34	32	35	37	38	39	39	40
170	29	30	32	33	35	36	37	37	37
175	18	19	19	19	20	20	22	22	22
180	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1187.96	N.A.	9.90
0-30	2534.25	N.A.	21.10
0-40	4178.42	N.A.	34.80
0-60	7571.08	N.A.	63.00
0-80	9975.18	N.A.	83.00
0-90	10588.91	N.A.	88.10
10-90	10282.46	N.A.	85.60
20-40	2990.47	N.A.	24.90
20-50	4731.02	N.A.	39.40
40-70	4789.31	N.A.	39.80
60-80	2404.1	N.A.	20.00
70-80	1007.44	N.A.	8.40
80-90	613.73	N.A.	5.10
90-110	728.50	N.A.	6.10
90-120	993.99	N.A.	8.30
90-130	1193.78	N.A.	9.90
90-150	1395.71	N.A.	11.60
90-180	1429.66	N.A.	11.90
110-180	701.15	N.A.	5.80
0-180	12018.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	306.45
10-20	881.51
20-30	1346.3
30-40	1644.17
40-50	1740.56
50-60	1652.1
60-70	1396.65
70-80	1007.44
80-90	613.73
90-100	404.87
100-110	323.63
110-120	265.48
120-130	199.80
130-140	130.47
140-150	71.46
150-160	26.22
160-170	6.51
170-180	1.22

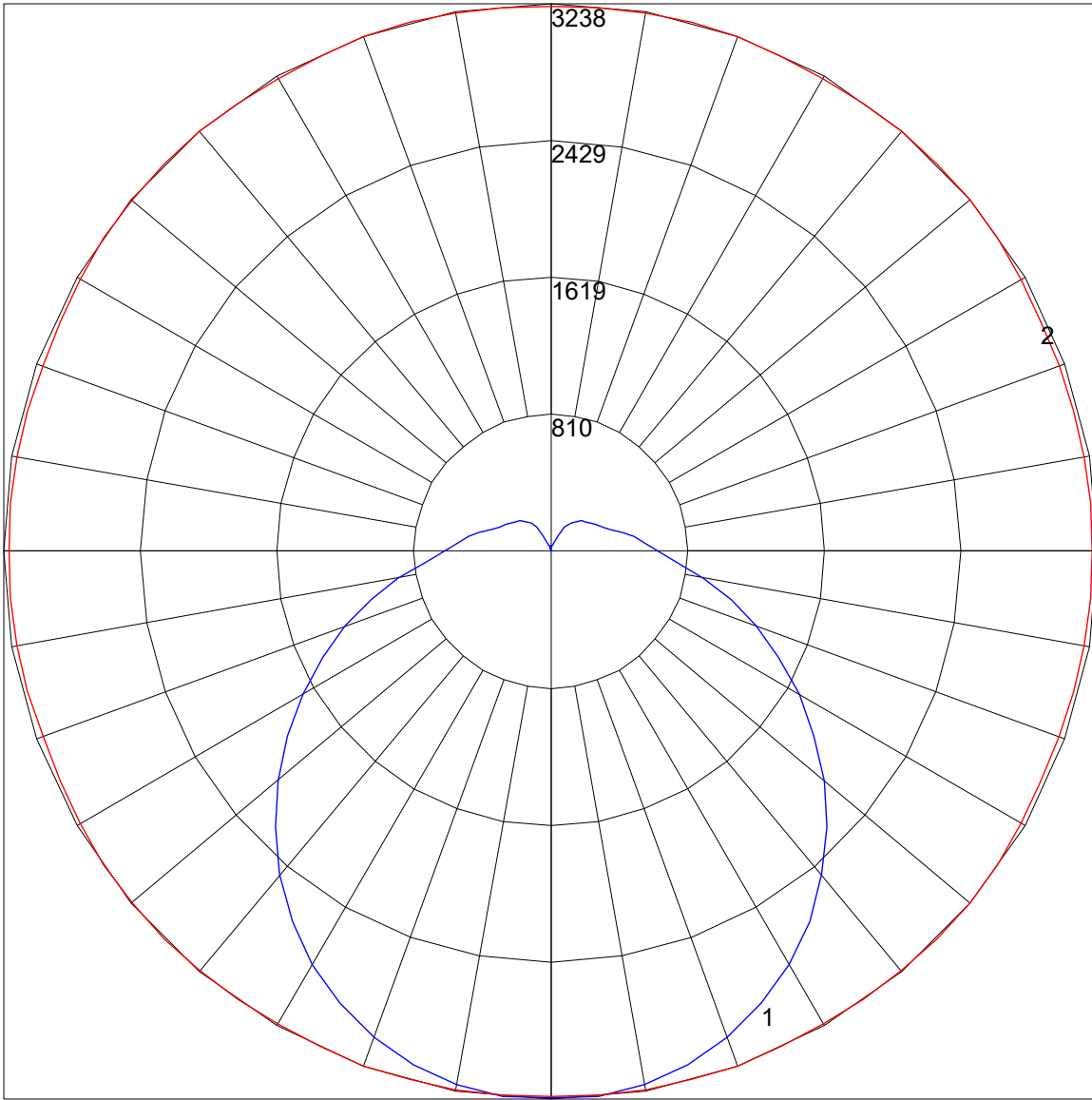
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	98	98	98	91	91	91	88
1	104	99	94	89	100	95	91	87	89	85	82	83	80	77	77	75	73	70
2	94	85	78	71	90	82	75	70	77	71	66	72	67	63	67	63	60	57
3	85	74	66	59	82	72	64	57	67	60	55	63	57	52	59	54	50	47
4	78	65	56	49	75	63	55	48	59	52	46	55	49	44	52	47	42	40
5	71	58	49	42	68	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	36	63	51	42	36	48	40	35	45	38	33	42	36	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	38	33	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 3238 Located At Horizontal Angle = 70, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)