



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-8-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111026
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-8-TA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (4 DRIVER)
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 277VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	95538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	617.97
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	2.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	53073	70368	53429
55	43935	80267	44350
65	33268	80470	33733
75	20263	57737	20738
85	8334	12830	8846

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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	31321	31321	31321	31321	31321	31321	31321	31321	31321	31321
5	31350	31207	31104	30964	30920	30964	31132	31231	31346	31418
10	30811	30579	30538	30791	31220	31415	31326	31285	31292	31275
15	29931	29576	29815	30552	30439	30187	30262	30323	30388	30395
20	28683	28355	28911	28976	28973	29136	29171	29000	29157	29181
25	27128	26872	27274	27169	27568	27445	27881	28308	28546	28594
30	25122	24948	25228	25398	25422	26336	26906	27360	27585	27687
35	22728	22762	22892	23144	23874	24993	25627	25777	25736	25763
40	19911	20334	20405	20900	22227	23212	23871	23901	24034	24058
45	16998	17605	17854	18877	20163	21394	22008	22230	22551	22714
50	14208	14659	15255	16807	18175	19427	20484	21903	22830	22994
55	11562	11835	12742	14447	16282	18178	19938	20763	21227	21357
60	9038	9215	10331	12268	14870	16763	18175	19137	19321	19331
65	6589	6833	8005	10426	13133	14957	15959	15918	16201	16197
70	4377	4661	6009	8502	10878	12029	12291	12191	11922	11638
75	2572	2888	4207	6183	7811	7978	8229	8301	7815	7527
80	1264	1545	2430	3365	4476	4902	4512	3806	3309	3139
85	433	581	810	1221	1598	1525	1227	917	760	712
90	131	133	140	151	163	174	182	188	192	194
95	201	156	143	150	159	167	174	180	185	187
100	269	385	150	144	148	154	159	163	168	169
105	346	585	543	141	131	133	135	138	141	142
110	427	781	912	488	134	114	115	117	119	120
115	518	911	1068	1130	520	164	102	103	105	105
120	607	973	1232	1272	1267	687	275	172	129	120
125	680	1009	1324	1295	1377	1363	1023	667	458	405
130	741	996	1334	1429	1388	1425	1403	1387	1266	1213
135	784	975	1300	1439	1430	1409	1446	1422	1431	1426
140	796	939	1223	1341	1506	1454	1427	1431	1457	1454
145	792	898	1122	1322	1337	1529	1540	1471	1477	1474
150	794	858	1049	1217	1323	1330	1507	1573	1620	1616
155	800	837	968	1071	1189	1272	1333	1353	1421	1432
160	794	812	860	948	1016	1094	1154	1200	1249	1250
165	769	777	801	840	890	912	947	982	991	999
170	761	763	780	797	814	832	841	862	881	882
175	781	781	778	783	794	806	821	833	839	846
180	810	810	810	810	810	810	810	810	810	810

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	31321	31321	31321	31321	31321	31321	31321	31321	31321
5	31346	31231	31132	30964	30920	30964	31104	31207	31350
10	31292	31285	31326	31415	31220	30791	30538	30579	30811
15	30388	30323	30262	30187	30439	30552	29815	29576	29931
20	29157	29000	29171	29136	28973	28976	28911	28355	28683
25	28546	28308	27881	27445	27568	27169	27274	26872	27128
30	27585	27360	26906	26336	25422	25398	25228	24948	25122
35	25736	25777	25627	24993	23874	23144	22892	22762	22728
40	24034	23901	23871	23212	22227	20900	20405	20334	19911
45	22551	22230	22008	21394	20163	18877	17854	17605	16998
50	22830	21903	20484	19427	18175	16807	15255	14659	14208
55	21227	20763	19938	18178	16282	14447	12742	11835	11562
60	19321	19137	18175	16763	14870	12268	10331	9215	9038

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CANDELA TABULATION - (Cont.)

65	16201	15918	15959	14957	13133	10426	8005	6833	6589
70	11922	12191	12291	12029	10878	8502	6009	4661	4377
75	7815	8301	8229	7978	7811	6183	4207	2888	2572
80	3309	3806	4512	4902	4476	3365	2430	1545	1264
85	760	917	1227	1525	1598	1221	810	581	433
90	192	188	182	174	163	151	140	133	131
95	185	180	174	167	159	150	143	156	201
100	168	163	159	154	148	144	150	385	269
105	141	138	135	133	131	141	543	585	346
110	119	117	115	114	134	488	912	781	427
115	105	103	102	164	520	1130	1068	911	518
120	129	172	275	687	1267	1272	1232	973	607
125	458	667	1023	1363	1377	1295	1324	1009	680
130	1266	1387	1403	1425	1388	1429	1334	996	741
135	1431	1422	1446	1409	1430	1439	1300	975	784
140	1457	1431	1427	1454	1506	1341	1223	939	796
145	1477	1471	1540	1529	1337	1322	1122	898	792
150	1620	1573	1507	1330	1323	1217	1049	858	794
155	1421	1353	1333	1272	1189	1071	968	837	800
160	1249	1200	1154	1094	1016	948	860	812	794
165	991	982	947	912	890	840	801	777	769
170	881	862	841	832	814	797	780	763	761
175	839	833	821	806	794	783	778	781	781
180	810	810	810	810	810	810	810	810	810

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11478.97	N.A.	12.00
0-30	24229.65	N.A.	25.40
0-40	39452.87	N.A.	41.30
0-60	70294.16	N.A.	73.60
0-80	89431.94	N.A.	93.60
0-90	90957.73	N.A.	95.20
10-90	87986.18	N.A.	92.10
20-40	27973.9	N.A.	29.30
20-50	43735.08	N.A.	45.80
40-70	43123.05	N.A.	45.10
60-80	19137.79	N.A.	20.00
70-80	6856.02	N.A.	7.20
80-90	1525.79	N.A.	1.60
90-110	455.32	N.A.	0.50
90-120	956.74	N.A.	1.00
90-130	1852.22	N.A.	1.90
90-150	3696.73	N.A.	3.90
90-180	4579.81	N.A.	4.80
110-180	4124.49	N.A.	4.30
0-180	95537.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2971.55
10-20	8507.42
20-30	12750.69
30-40	15223.22
40-50	15761.19
50-60	15080.1
60-70	12281.77
70-80	6856.02
80-90	1525.79
90-100	187.62
100-110	267.70
110-120	501.42
120-130	895.48
130-140	1019.88
140-150	824.63
150-160	544.83
160-170	260.75
170-180	77.50

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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	
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	103	98	94	104	100	96	92	95	92	89	90	87	85	86	84	82	79
2	97	89	82	76	94	87	81	75	82	77	73	78	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	38	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	28
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

Reflectances

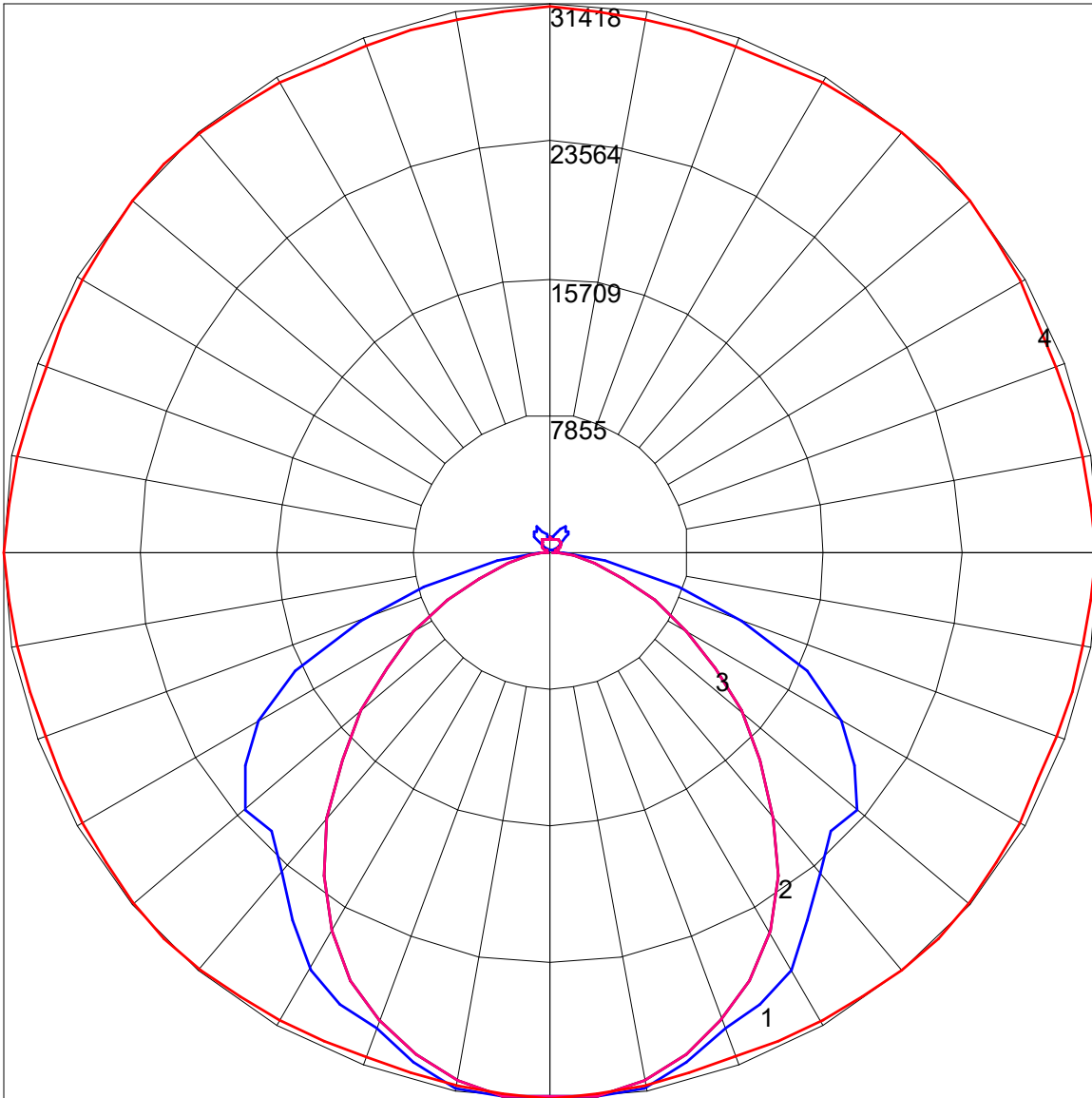
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	26.0	27.5	26.4	27.9	28.4	26.0	27.5	26.4	27.9	28.4
	3H	27.1	28.5	27.6	29.0	29.4	27.1	28.5	27.6	28.9	29.4
	4H	27.4	28.7	27.9	29.2	29.7	27.4	28.7	27.9	29.1	29.6
	6H	27.5	28.8	28.0	29.2	29.7	27.5	28.7	28.0	29.2	29.7
	8H	27.5	28.7	28.0	29.2	29.7	27.5	28.7	28.0	29.2	29.7
	12H	27.5	28.7	28.0	29.1	29.7	27.5	28.6	28.0	29.1	29.6
4H	2H	27.3	28.6	27.8	29.1	29.6	27.3	28.6	27.8	29.1	29.6
	3H	29.1	30.2	29.6	30.7	31.2	29.0	30.1	29.5	30.6	31.2
	4H	29.7	30.7	30.2	31.2	31.7	29.7	30.6	30.2	31.2	31.7
	6H	30.0	30.9	30.6	31.4	32.0	30.0	30.9	30.5	31.4	32.0
	8H	30.1	30.9	30.6	31.4	32.0	30.0	30.8	30.6	31.4	32.0
	12H	30.1	30.8	30.6	31.4	31.9	30.0	30.8	30.6	31.3	31.9
8H	4H	30.1	31.0	30.7	31.5	32.1	30.1	30.9	30.7	31.5	32.0
	6H	30.7	31.4	31.3	31.9	32.5	30.7	31.3	31.2	31.9	32.5
	8H	30.8	31.4	31.4	32.0	32.6	30.8	31.4	31.4	32.0	32.6
	12H	30.9	31.4	31.5	32.0	32.7	30.9	31.4	31.5	32.0	32.7
12H	4H	30.2	30.9	30.7	31.5	32.1	30.2	30.9	30.7	31.5	32.0
	6H	30.7	31.3	31.3	31.9	32.5	30.7	31.3	31.3	31.9	32.5
	8H	30.9	31.4	31.5	32.0	32.7	30.9	31.4	31.5	32.0	32.7

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 31418 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)