



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-6-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111024
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-6-TA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (3 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	142302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	929.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	66505	81895	88758
55	55411	81777	101243
65	42538	88055	100067
75	26494	76528	72374
85	11416	36484	17085

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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	45848	45848	45848	45848	45848	45848	45848	45848	45848	45848
5	45790	45730	45734	45812	45880	45856	45782	45768	45832	45930
10	45036	44980	45094	45094	45176	45482	45926	46212	46290	46450
15	43770	43800	43700	43902	44544	44924	45188	45368	45312	45160
20	41986	41902	41900	42416	42708	42954	43032	43076	43162	43384
25	39802	39678	39912	40230	40308	40330	40490	40788	40898	41018
30	36896	36758	36886	37202	37214	37502	37926	37926	38134	38800
35	33332	33284	33516	34016	34006	34336	34484	34994	35856	36578
40	29178	29260	29844	30248	30396	30736	31384	32334	33282	34114
45	24836	25138	25802	26240	26590	27214	28306	29508	30384	31320
50	20794	21078	21612	22148	22732	23752	25224	26286	27272	28240
55	16896	17108	17464	18108	18982	20472	21742	22916	24264	25788
60	13204	13316	13622	14350	15440	16834	18346	20232	22380	24084
65	9662	9726	10062	10810	11922	13478	15656	17822	19618	21016
70	6420	6506	6884	7688	8896	10762	12714	14566	16154	17310
75	3774	3864	4284	5094	6248	7674	9112	10438	11514	11842
80	1852	1954	2294	2878	3596	4380	5056	5924	6652	7100
85	610	674	826	976	1194	1470	1842	2190	2394	2412
90	202	202	204	208	214	220	228	234	242	250
95	238	254	224	218	220	224	228	232	238	244
100	308	362	400	330	230	222	222	224	226	230
105	388	508	630	698	640	314	214	208	206	206
110	478	618	862	968	1064	1096	662	324	200	184
115	588	726	1044	1236	1314	1414	1560	1250	710	380
120	708	840	1148	1420	1564	1636	1718	1854	1846	1482
125	810	936	1162	1524	1740	1828	1864	1934	1946	2080
130	914	1006	1202	1556	1802	1984	2034	2000	2060	2062
135	976	1042	1240	1440	1792	1992	2140	2178	2082	2110
140	1018	1078	1238	1350	1672	1940	2098	2202	2268	2220
145	1042	1098	1202	1380	1466	1794	1996	2116	2212	2298
150	1070	1108	1160	1330	1436	1526	1808	1984	2096	2180
155	1096	1124	1148	1230	1384	1444	1512	1654	1880	2006
160	1086	1104	1130	1156	1226	1336	1414	1458	1514	1602
165	1058	1070	1088	1102	1120	1158	1232	1296	1360	1398
170	1062	1062	1070	1080	1094	1102	1110	1126	1152	1184
175	1110	1110	1110	1106	1106	1112	1114	1118	1124	1130
180	1118	1118	1118	1118	1118	1118	1118	1118	1118	1118

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	45848	45848	45848	45848	45848	45848	45848	45848	45848
5	46076	46278	46482	46616	46732	46790	46826	46836	46858
10	46618	46714	46720	46680	46642	46602	46564	46510	46458
15	45072	44994	45076	45202	45264	45314	45334	45296	45260
20	43486	43552	43640	43684	43702	43674	43652	43604	43604
25	41196	41556	42008	42346	42554	42780	42930	42984	42994
30	39514	39940	40326	40836	41266	41502	41482	41494	41450
35	37470	38164	38410	38628	38672	38694	38730	38718	38684
40	34900	35526	35678	35758	35800	35858	36012	36106	36142
45	31940	32500	32872	33134	33400	33586	33802	33942	33976
50	29056	29662	30626	31848	33052	34056	34542	34696	34696
55	27196	28802	29986	30466	30930	31388	31748	31912	31968
60	25106	26140	27126	27996	28580	28874	28994	28998	29000

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65	22282	23336	23798	23684	23692	23842	24000	23986	23928
70	17826	18094	18258	18124	17934	17758	17570	17338	17192
75	11836	11894	12102	12346	12300	11994	11608	11352	11234
80	7244	7100	6776	6278	5758	5340	5054	4880	4816
85	2324	2130	1902	1646	1468	1290	1204	1158	1138
90	256	260	266	270	272	274	276	278	278
95	250	254	260	264	266	270	272	274	274
100	236	240	244	250	254	258	260	262	264
105	208	212	214	218	222	224	228	230	232
110	184	184	186	190	192	196	198	200	200
115	252	176	168	170	172	174	176	178	178
120	1016	634	414	310	276	236	204	186	182
125	2088	1888	1562	1266	1048	820	700	650	630
130	2056	2146	2214	2212	2132	2046	1968	1918	1904
135	2138	2126	2106	2100	2126	2172	2210	2242	2256
140	2138	2160	2208	2200	2188	2180	2176	2172	2168
145	2346	2344	2270	2212	2206	2224	2244	2258	2262
150	2262	2328	2380	2414	2436	2444	2438	2436	2432
155	2100	2160	2214	2264	2310	2348	2378	2394	2392
160	1740	1866	1966	2036	2092	2142	2174	2192	2184
165	1434	1462	1510	1558	1602	1636	1662	1686	1686
170	1222	1258	1284	1300	1320	1336	1346	1350	1356
175	1128	1128	1134	1134	1140	1140	1140	1152	1152
180	1118	1118	1118	1118	1118	1118	1118	1118	1118

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	17050.89	N.A.	12.00
0-30	36081.25	N.A.	25.40
0-40	58822.23	N.A.	41.30
0-60	104919.4	N.A.	73.70
0-80	133363.1	N.A.	93.70
0-90	135660.5	N.A.	95.30
10-90	131259.7	N.A.	92.20
20-40	41771.34	N.A.	29.40
20-50	65321.89	N.A.	45.90
40-70	64375.04	N.A.	45.20
60-80	28443.76	N.A.	20.00
70-80	10165.84	N.A.	7.10
80-90	2297.4	N.A.	1.60
90-110	624.70	N.A.	0.40
90-120	1284.39	N.A.	0.90
90-130	2555.88	N.A.	1.80
90-150	5278.03	N.A.	3.70
90-180	6641.78	N.A.	4.70
110-180	6017.08	N.A.	4.20
0-180	142302.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4400.84
10-20	12650.05
20-30	19030.36
30-40	22740.98
40-50	23550.55
50-60	22546.57
60-70	18277.92
70-80	10165.84
80-90	2297.4
90-100	273.14
100-110	351.56
110-120	659.69
120-130	1271.49
130-140	1490.12
140-150	1232.03
150-160	851.32
160-170	402.41
170-180	110.02

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	108	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	79
2	98	89	82	76	94	87	81	75	83	77	73	79	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	39	34	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	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

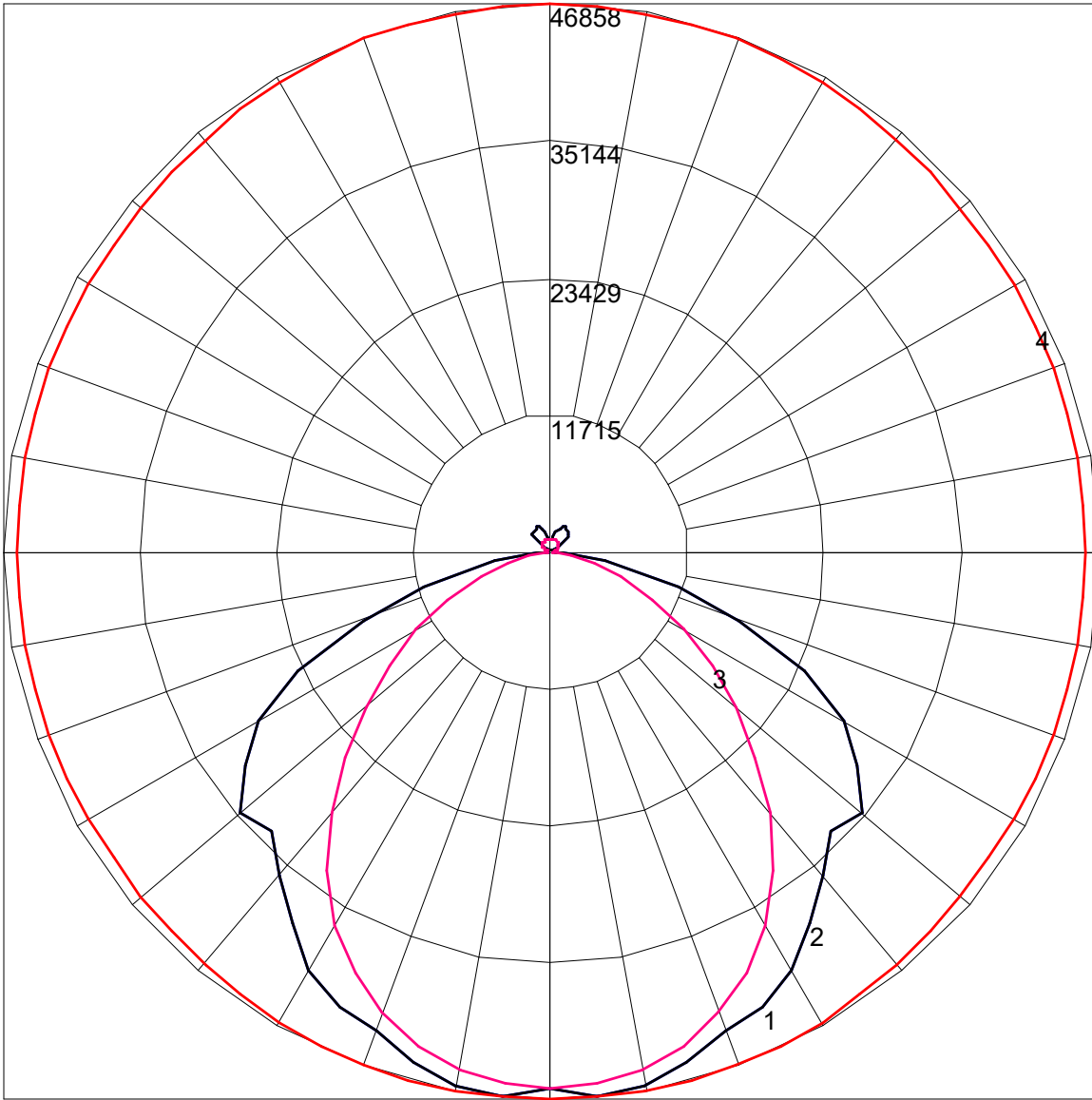
Reflectances

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		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.8	26.4	25.3	26.8	27.2	28.9	30.4	29.3	30.8	31.3
	3H	25.9	27.3	26.4	27.7	28.2	30.8	32.2	31.3	32.6	33.1
	4H	26.2	27.5	26.7	27.9	28.4	31.4	32.7	31.9	33.2	33.7
	6H	26.3	27.5	26.8	28.0	28.5	31.7	32.9	32.2	33.4	33.9
	8H	26.3	27.5	26.8	28.0	28.5	31.7	32.9	32.2	33.4	33.9
	12H	26.3	27.5	26.9	27.9	28.5	31.7	32.8	32.2	33.3	33.9
4H	2H	26.5	27.9	27.0	28.3	28.8	29.4	30.7	29.9	31.2	31.7
	3H	28.0	29.1	28.5	29.6	30.1	31.6	32.7	32.1	33.2	33.7
	4H	28.4	29.4	29.0	29.9	30.5	32.4	33.3	32.9	33.8	34.4
	6H	28.6	29.5	29.2	30.0	30.6	32.7	33.6	33.3	34.1	34.7
	8H	28.7	29.5	29.2	30.0	30.6	32.8	33.6	33.3	34.1	34.7
	12H	28.7	29.4	29.2	30.0	30.6	32.8	33.5	33.4	34.1	34.7
8H	4H	29.3	30.1	29.9	30.7	31.2	32.6	33.4	33.1	33.9	34.5
	6H	29.7	30.4	30.3	31.0	31.6	33.1	33.8	33.7	34.3	34.9
	8H	29.8	30.4	30.4	31.0	31.6	33.2	33.8	33.8	34.4	35.0
	12H	29.8	30.4	30.4	30.9	31.6	33.2	33.8	33.8	34.3	35.0
12H	4H	29.4	30.1	30.0	30.7	31.3	32.6	33.3	33.1	33.9	34.4
	6H	29.9	30.5	30.5	31.1	31.7	33.1	33.7	33.7	34.3	34.9
	8H	30.0	30.6	30.6	31.1	31.8	33.3	33.8	33.8	34.4	35.0

Maximum UGR = 35.0

POLAR GRAPH



Maximum Candela = 46858 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (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.)