



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111037
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/15/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-11-DA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6 (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	137001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	827.82
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)	2.71 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34130	42961	47317
55	28287	43408	54095
65	21504	46893	54392
75	13275	41153	40082
85	5928	21489	10398

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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	44012	44012	44012	44012	44012	44012	44012	44012	44012	44012
5	43934	43936	43942	43906	43820	43702	43574	43576	43678	43772
10	43176	43090	43036	42958	43028	43250	43486	43754	44110	44340
15	42050	41858	41700	41794	42108	42672	43084	43012	43068	43076
20	40336	40048	39976	40142	40742	40762	40972	41094	41328	41484
25	38068	37884	37840	38192	38300	38424	38554	38888	39318	39368
30	35222	35010	35038	35338	35520	35680	36226	36330	36528	37172
35	31814	31554	31822	32360	32300	32748	32988	33430	34436	35314
40	27768	27732	28376	28724	28862	29336	29984	31084	32126	32862
45	23658	23810	24550	24826	25280	25972	27200	28464	29204	30104
50	19762	19936	20514	20964	21708	22700	24272	25242	26294	27338
55	16010	16140	16550	17232	18166	19642	20890	22102	23502	24948
60	12456	12522	12872	13650	14778	16150	17672	19462	21524	23216
65	9066	9142	9498	10306	11396	12920	15156	17176	18998	20224
70	6000	6104	6524	7352	8550	10314	12146	14016	15578	16648
75	3510	3614	4068	4800	5956	7260	8754	10030	11056	11306
80	1722	1820	2152	2708	3378	4086	4726	5634	6362	6838
85	588	638	760	912	1124	1412	1738	2112	2332	2360
90	196	196	196	200	206	212	220	228	236	242
95	282	296	226	206	208	214	218	224	228	234
100	354	464	548	408	218	210	210	212	214	218
105	464	640	824	942	840	378	202	194	192	192
110	600	776	1110	1216	1344	1354	748	352	194	168
115	732	892	1296	1530	1580	1702	1810	1424	834	436
120	872	1018	1432	1750	1886	1880	1952	2082	1984	1604
125	986	1118	1490	1858	2048	2114	2064	2046	2126	2176
130	1076	1190	1498	1864	2118	2208	2230	2168	2092	2086
135	1144	1236	1486	1780	2066	2224	2262	2266	2218	2128
140	1172	1240	1442	1692	1954	2152	2250	2268	2258	2230
145	1178	1230	1394	1606	1810	1986	2134	2216	2238	2230
150	1182	1220	1332	1498	1674	1812	1940	2044	2092	2108
155	1172	1194	1258	1360	1472	1584	1660	1718	1778	1826
160	1120	1128	1158	1204	1262	1326	1400	1460	1506	1542
165	1064	1064	1078	1100	1132	1172	1212	1252	1290	1330
170	1050	1048	1052	1062	1078	1094	1116	1134	1156	1172
175	1106	1102	1096	1088	1082	1084	1084	1090	1096	1102
180	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110

Vert. 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	44012	44012	44012	44012	44012	44012	44012	44012	44012
5	43826	43912	43984	44074	44142	44180	44210	44216	44228
10	44340	44252	44234	44294	44318	44316	44314	44310	44310
15	42962	43016	43054	43104	43222	43324	43362	43404	43424
20	41716	41826	41730	41666	41810	41914	41952	41984	42006
25	39546	39846	40196	40684	40940	41136	41236	41284	41326
30	38018	38498	38920	39404	39606	39860	39994	40040	40076
35	36120	36780	37140	37212	37440	37434	37332	37216	37176
40	33630	34234	34540	34604	34628	34822	34902	34920	34930
45	30916	31496	31798	32014	32310	32538	32770	32946	33008
50	28108	28716	29644	30786	31886	32792	33254	33484	33558
55	26330	27766	28934	29560	30012	30464	30756	30884	30894
60	24248	25224	26242	27156	27698	27942	28026	28062	28008

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65	21496	22534	22920	22860	22840	23080	23232	23278	23240
70	17176	17412	17544	17430	17254	17072	16914	16688	16560
75	11334	11486	11710	11950	11876	11588	11232	10968	10840
80	7012	6866	6564	6098	5600	5208	4928	4768	4702
85	2272	2088	1858	1614	1396	1256	1178	1118	1096
90	248	252	258	260	264	266	268	268	268
95	240	244	246	250	252	256	258	258	258
100	222	224	226	228	230	232	234	234	234
105	192	192	192	192	194	194	194	196	194
110	166	164	164	164	164	166	166	166	164
115	246	166	146	146	146	146	148	148	144
120	1098	700	444	304	252	210	186	172	164
125	2074	1856	1548	1250	1018	832	716	652	636
130	2122	2162	2142	2048	1900	1792	1728	1702	1694
135	2054	2026	2016	1986	1944	1960	1994	2010	2024
140	2178	2118	2006	1912	1856	1862	1882	1898	1912
145	2220	2150	2068	2030	2022	2008	2002	2010	2022
150	2098	2058	2044	2062	2094	2102	2110	2124	2134
155	1868	1892	1930	1968	1998	2018	2028	2044	2052
160	1578	1630	1672	1712	1742	1764	1788	1796	1796
165	1366	1392	1416	1428	1444	1460	1482	1480	1482
170	1188	1204	1220	1238	1256	1274	1292	1294	1298
175	1110	1118	1126	1132	1136	1140	1144	1146	1142
180	1110	1110	1110	1110	1110	1110	1110	1110	1110

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	16257.58	N.A.	11.90
0-30	34473.21	N.A.	25.20
0-40	56300.24	N.A.	41.10
0-60	100667.6	N.A.	73.50
0-80	128024.9	N.A.	93.40
0-90	130236.00	N.A.	95.10
10-90	126045.4	N.A.	92.00
20-40	40042.66	N.A.	29.20
20-50	62695.62	N.A.	45.80
40-70	61961.94	N.A.	45.20
60-80	27357.32	N.A.	20.00
70-80	9762.75	N.A.	7.10
80-90	2211.1	N.A.	1.60
90-110	655.13	N.A.	0.50
90-120	1409.1	N.A.	1.00
90-130	2767.85	N.A.	2.00
90-150	5480.54	N.A.	4.00
90-180	6765.12	N.A.	4.90
110-180	6109.99	N.A.	4.50
0-180	137001.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4190.68
10-20	12066.9
20-30	18215.63
30-40	21827.03
40-50	22652.96
50-60	21714.41
60-70	17594.57
70-80	9762.75
80-90	2211.11
90-100	268.70
100-110	386.43
110-120	753.98
120-130	1358.74
130-140	1502.01
140-150	1210.68
150-160	798.84
160-170	377.60
170-180	108.14

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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	80	75	82	77	73	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	47
5	74	61	52	46	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	37	31	26	25
10	52	38	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

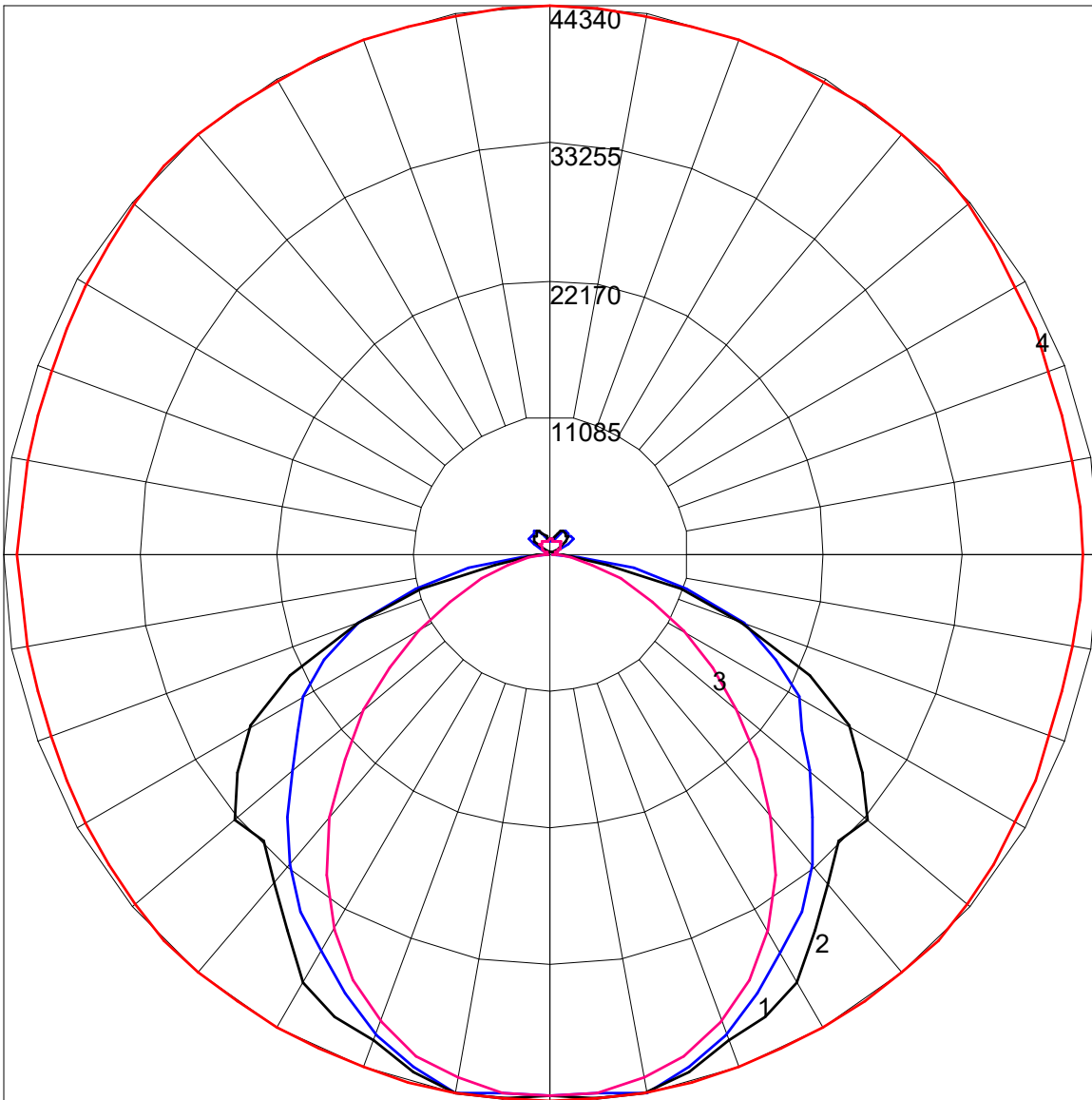
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UGR TABLE - CORRECTED

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	22.6	24.1	23.0	24.6	25.0	26.7	28.3	27.2	28.7	29.1
	3H	23.7	25.1	24.1	25.5	26.0	28.6	30.0	29.1	30.4	30.9
	4H	24.0	25.3	24.5	25.7	26.2	29.2	30.5	29.7	31.0	31.5
	6H	24.1	25.3	24.6	25.8	26.3	29.5	30.7	30.0	31.2	31.7
	8H	24.1	25.3	24.6	25.8	26.3	29.5	30.7	30.0	31.2	31.7
	12H	24.1	25.3	24.7	25.7	26.3	29.5	30.7	30.1	31.1	31.7
4H	2H	24.4	25.7	24.8	26.1	26.6	27.2	28.6	27.7	29.0	29.5
	3H	25.8	26.9	26.3	27.4	27.9	29.4	30.5	29.9	31.0	31.5
	4H	26.2	27.3	26.8	27.8	28.3	30.2	31.2	30.7	31.7	32.2
	6H	26.5	27.3	27.0	27.9	28.4	30.6	31.4	31.1	32.0	32.5
	8H	26.5	27.3	27.0	27.8	28.4	30.6	31.4	31.2	32.0	32.5
	12H	26.5	27.2	27.1	27.8	28.4	30.6	31.4	31.2	31.9	32.5
8H	4H	27.2	28.0	27.7	28.5	29.1	30.4	31.2	30.9	31.7	32.3
	6H	27.6	28.2	28.1	28.8	29.4	30.9	31.6	31.5	32.2	32.8
	8H	27.6	28.2	28.2	28.8	29.4	31.0	31.6	31.6	32.2	32.8
	12H	27.7	28.2	28.3	28.8	29.5	31.1	31.6	31.7	32.2	32.8
12H	4H	27.3	28.0	27.8	28.5	29.1	30.4	31.1	31.0	31.7	32.3
	6H	27.7	28.4	28.3	28.9	29.6	30.9	31.6	31.5	32.1	32.8
	8H	27.9	28.4	28.5	29.0	29.7	31.1	31.6	31.7	32.2	32.9

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 44340 Located At Horizontal Angle = 45, Vertical Angle = 10
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 (10) (Through Max. Cd.)