



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-1-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111027
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-1-SA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI50/120-277/1A4DIM-1LG2
 [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	6111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	39.14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9481	10168	10918
55	7819	9961	12448
65	5887	10636	12320
75	3432	8963	7439
85	1233	1790	664

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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	2137	2137	2137	2137	2137	2137	2137	2137	2137	2137
5	2123	2131	2136	2130	2126	2126	2125	2126	2131	2139
10	2096	2108	2105	2095	2087	2105	2132	2155	2165	2168
15	2046	2056	2041	2038	2071	2092	2097	2120	2118	2113
20	1974	1969	1958	1988	1992	2009	2005	2020	2017	2028
25	1887	1866	1872	1888	1894	1894	1903	1915	1905	1880
30	1747	1735	1741	1757	1764	1765	1781	1749	1730	1735
35	1579	1579	1591	1623	1615	1622	1585	1578	1584	1589
40	1390	1392	1428	1450	1444	1417	1405	1420	1435	1443
45	1185	1199	1242	1259	1239	1220	1235	1260	1282	1314
50	991	1007	1038	1046	1028	1031	1074	1103	1133	1174
55	803	819	832	831	823	863	905	949	1005	1072
60	624	635	632	627	653	697	757	836	932	1002
65	455	456	449	455	492	555	649	741	822	880
70	297	295	292	315	362	442	530	612	689	744
75	170	166	175	204	258	323	394	444	494	496
80	80	79	90	117	152	186	205	240	264	271
85	25	27	33	38	45	52	57	58	53	47
90	8	8	8	9	9	9	9	10	10	10
95	10	10	9	9	9	9	10	10	10	10
100	12	15	15	12	9	9	9	10	10	10
105	14	19	26	23	19	11	9	9	9	9
110	17	23	36	41	32	31	18	11	8	8
115	20	26	43	53	53	40	41	33	19	11
120	24	29	47	61	62	61	48	48	45	37
125	27	32	50	64	72	68	66	59	49	50
130	30	34	50	63	74	76	71	67	66	55
135	31	34	49	62	70	77	78	73	69	68
140	33	35	47	61	67	73	77	79	74	72
145	34	35	44	57	64	68	73	76	78	78
150	36	35	42	51	61	65	68	70	73	76
155	37	36	40	45	54	61	64	66	68	70
160	37	36	38	42	46	52	58	62	64	65
165	35	35	35	38	41	43	46	50	55	58
170	35	35	35	35	37	38	40	41	43	44
175	37	37	37	37	37	37	37	37	37	37
180	36	36	36	36	36	36	36	36	36	36

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	2137	2137	2137	2137	2137	2137	2137	2137	2137
5	2147	2154	2162	2168	2171	2173	2173	2171	2166
10	2175	2185	2183	2175	2169	2161	2157	2153	2148
15	2114	2104	2093	2098	2097	2097	2097	2091	2088
20	2032	2006	1993	1987	1974	1955	1945	1938	1936
25	1861	1854	1866	1859	1858	1857	1859	1853	1851
30	1740	1731	1733	1744	1763	1763	1758	1749	1746
35	1607	1624	1617	1632	1621	1618	1617	1613	1613
40	1471	1493	1491	1491	1490	1487	1494	1500	1504
45	1333	1352	1368	1374	1380	1390	1396	1400	1406
50	1208	1226	1269	1328	1383	1419	1442	1448	1450
55	1134	1202	1248	1262	1288	1306	1324	1332	1333
60	1041	1093	1139	1173	1200	1210	1217	1215	1211

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CANDELA TABULATION - (Cont.)

65	938	990	1007	1005	1010	1015	1019	1017	1012
70	755	763	768	765	758	741	729	714	707
75	486	493	497	496	476	449	427	413	407
80	260	239	218	192	169	151	139	132	129
85	40	33	28	23	20	18	17	17	17
90	10	11	11	11	11	11	11	11	11
95	10	11	11	11	11	11	11	12	12
100	10	10	10	11	11	11	11	11	11
105	9	9	10	10	10	10	10	10	10
110	8	8	8	8	9	9	9	9	9
115	10	7	8	7	8	8	8	8	8
120	26	15	12	11	11	9	8	8	8
125	49	46	38	31	23	18	16	15	15
130	49	51	51	50	48	47	46	45	43
135	66	59	51	49	50	50	51	52	51
140	69	67	68	67	63	60	58	56	56
145	75	73	72	70	69	68	68	68	68
150	78	79	78	77	76	75	75	74	75
155	72	73	75	76	77	78	79	79	79
160	66	67	68	69	70	71	71	72	72
165	61	62	63	64	65	65	65	65	66
170	46	48	50	53	54	55	56	56	57
175	37	37	38	38	39	40	41	42	42
180	36	36	36	36	36	36	36	36	36

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	791.78	N.A.	13.00
0-30	1655.54	N.A.	27.10
0-40	2660.44	N.A.	43.50
0-60	4637.23	N.A.	75.90
0-80	5819.83	N.A.	95.20
0-90	5889.98	N.A.	96.40
10-90	5685.28	N.A.	93.00
20-40	1868.66	N.A.	30.60
20-50	2886.74	N.A.	47.20
40-70	2750.11	N.A.	45.00
60-80	1182.6	N.A.	19.40
70-80	409.28	N.A.	6.70
80-90	70.15	N.A.	1.10
90-110	24.96	N.A.	0.40
90-120	47.45	N.A.	0.80
90-130	85.51	N.A.	1.40
90-150	171.92	N.A.	2.80
90-180	220.73	N.A.	3.60
110-180	195.77	N.A.	3.20
0-180	6110.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.70
10-20	587.08
20-30	863.76
30-40	1004.9
40-50	1018.08
50-60	958.71
60-70	773.32
70-80	409.28
80-90	70.15
90-100	11.27
100-110	13.69
110-120	22.49
120-130	38.06
130-140	45.26
140-150	41.14
150-160	29.80
160-170	15.15
170-180	3.86

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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	99	95	105	101	97	94	96	93	90	91	89	87	87	85	83	81
2	98	90	83	78	95	88	82	76	84	79	74	80	76	72	76	73	70	67
3	90	79	71	64	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	70	61	55	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	62	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44	42
6	70	56	47	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	39	32	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

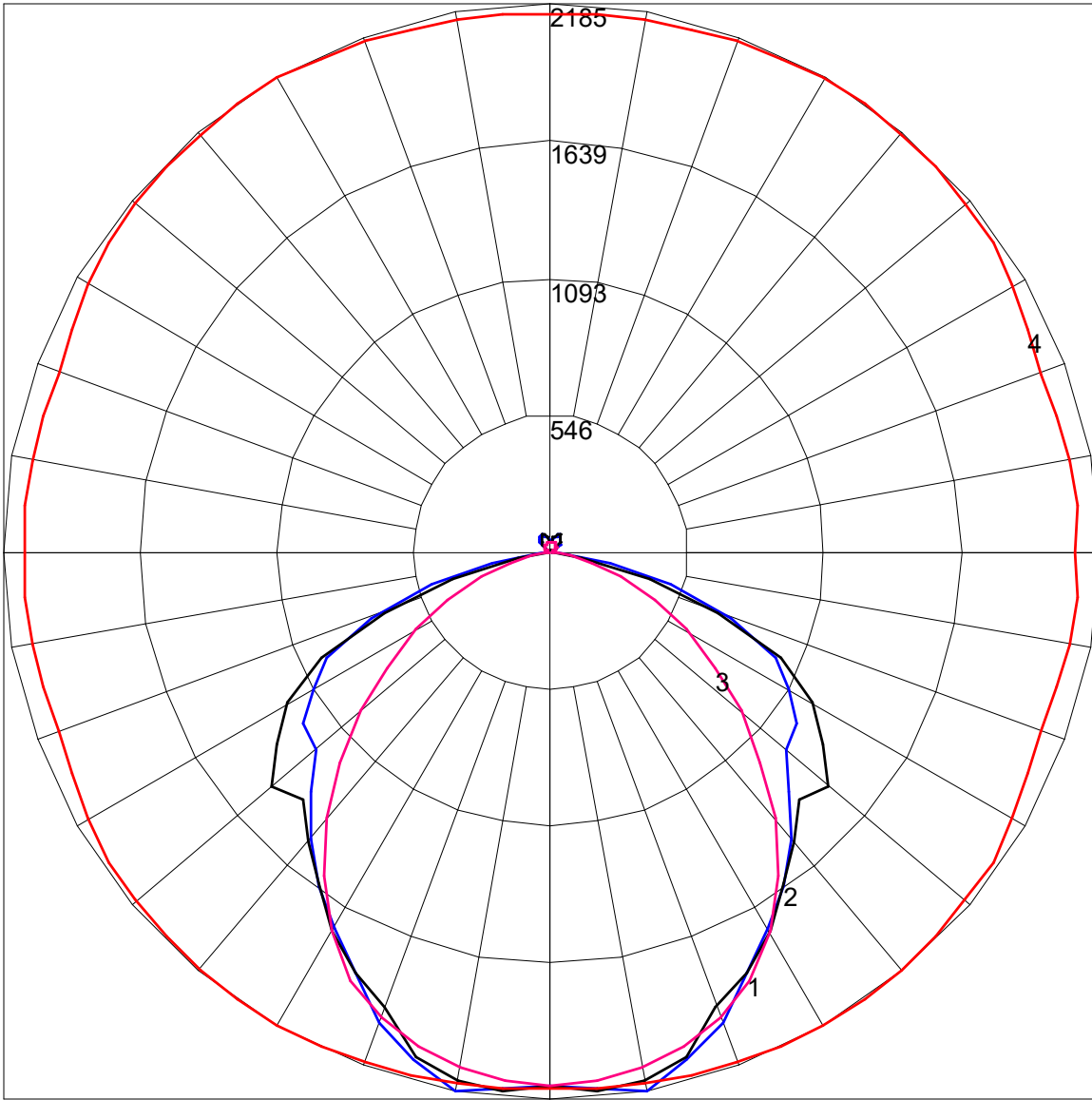
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UGR TABLE - CORRECTED

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	17.8	19.3	18.2	19.7	20.1	21.6	23.1	22.0	23.5	24.0
	3H	18.8	20.2	19.3	20.6	21.1	23.5	24.9	24.0	25.3	25.8
	4H	19.1	20.4	19.6	20.8	21.3	24.0	25.3	24.5	25.7	26.2
	6H	19.2	20.4	19.7	20.9	21.3	24.1	25.3	24.6	25.8	26.3
	8H	19.2	20.4	19.7	20.8	21.3	24.1	25.3	24.6	25.7	26.2
	12H	19.2	20.3	19.7	20.8	21.3	24.1	25.2	24.6	25.7	26.2
4H	2H	19.4	20.7	19.9	21.1	21.6	22.1	23.4	22.6	23.9	24.3
	3H	20.8	21.9	21.3	22.4	22.9	24.3	25.4	24.8	25.9	26.4
	4H	21.2	22.2	21.7	22.7	23.2	24.9	25.9	25.4	26.4	26.9
	6H	21.4	22.3	21.9	22.8	23.3	25.1	26.0	25.6	26.5	27.0
	8H	21.4	22.2	21.9	22.7	23.3	25.1	25.9	25.6	26.4	27.0
	12H	21.4	22.1	21.9	22.7	23.2	25.1	25.8	25.7	26.4	26.9
8H	4H	22.0	22.8	22.5	23.3	23.9	25.1	25.9	25.6	26.4	27.0
	6H	22.4	23.0	22.9	23.6	24.2	25.4	26.1	26.0	26.6	27.2
	8H	22.4	23.0	23.0	23.6	24.2	25.4	26.0	26.0	26.6	27.2
	12H	22.5	23.0	23.0	23.5	24.2	25.4	25.9	26.0	26.5	27.2
12H	4H	22.1	22.8	22.6	23.3	23.9	25.1	25.8	25.7	26.4	26.9
	6H	22.5	23.1	23.1	23.6	24.2	25.4	26.0	26.0	26.6	27.2
	8H	22.6	23.1	23.2	23.7	24.3	25.5	26.0	26.0	26.6	27.2

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 2185 Located At Horizontal Angle = 55, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (55 - 235) (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.)