



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-10-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111036
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-10-DA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6 (2 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	125459
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	169
Total Luminaire Watts	741.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
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)	2.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34576	43273	47237
55	28814	43664	54081
65	22189	47439	54271
75	13932	42053	40477
85	6464	22398	10569

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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	39880	39880	39880	39880	39880	39880	39880	39880	39880	39880
5	39850	39848	39816	39816	39776	39684	39568	39496	39510	39586
10	39238	39162	39122	39076	39038	39220	39488	39756	40046	40274
15	38252	38104	37938	37950	38290	38844	39266	39178	39184	39158
20	36742	36532	36360	36586	37110	37276	37376	37474	37592	37746
25	34776	34540	34458	34798	34964	35084	35182	35524	35884	35886
30	32244	32014	31976	32340	32496	32650	33074	33206	33262	33838
35	29082	28876	29076	29618	29592	29956	30202	30518	31404	32178
40	25500	25428	26038	26386	26522	26886	27434	28406	29342	30012
45	21756	21862	22540	22868	23238	23814	24946	26042	26740	27568
50	18190	18368	18870	19332	20006	20900	22238	23128	24098	25068
55	14804	14940	15300	15904	16770	18080	19212	20286	21578	22830
60	11588	11668	11992	12636	13726	14920	16290	17976	19850	21292
65	8492	8570	8898	9610	10646	12004	13842	15760	17472	18632
70	5662	5754	6124	6850	8006	9590	11266	12918	14396	15358
75	3344	3440	3840	4544	5638	6862	8130	9292	10300	10544
80	1660	1762	2068	2570	3252	3920	4490	5312	5992	6398
85	582	630	750	888	1086	1358	1688	2032	2234	2264
90	174	174	178	182	186	192	200	206	214	220
95	266	276	206	188	190	194	198	204	210	214
100	354	456	520	374	202	190	190	192	196	198
105	450	618	776	884	754	332	186	174	174	174
110	554	728	1020	1130	1272	1238	732	346	174	152
115	676	848	1202	1412	1448	1560	1652	1306	740	392
120	790	954	1298	1596	1686	1668	1726	1874	1808	1456
125	878	1024	1310	1664	1842	1852	1824	1822	1928	2010
130	956	1082	1326	1630	1850	1952	1970	1936	1872	1904
135	996	1088	1324	1538	1776	1906	2008	2030	2004	1944
140	1004	1072	1280	1438	1662	1842	1928	1996	2052	2044
145	994	1048	1190	1398	1516	1694	1824	1930	1922	2034
150	990	1028	1120	1300	1422	1516	1652	1710	1844	1934
155	988	1020	1068	1174	1314	1388	1456	1552	1628	1674
160	974	990	1022	1066	1146	1234	1308	1342	1388	1438
165	938	950	972	994	1020	1068	1126	1174	1226	1252
170	928	934	946	960	976	992	1004	1026	1052	1084
175	958	960	962	958	960	968	974	982	992	998
180	988	988	988	988	988	988	988	988	988	988

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	39880	39880	39880	39880	39880	39880	39880	39880	39880
5	39674	39776	39880	39946	40012	40086	40116	40150	40200
10	40340	40286	40216	40230	40258	40284	40284	40278	40284
15	39090	39106	39174	39184	39246	39360	39456	39482	39498
20	37956	38090	38044	37908	37900	37998	38086	38114	38132
25	35902	36226	36550	36966	37210	37344	37460	37526	37538
30	34602	35020	35424	35844	36038	36212	36368	36454	36490
35	32932	33466	33844	33902	34048	34094	33978	33928	33930
40	30682	31240	31464	31524	31562	31668	31760	31782	31794
45	28292	28770	29046	29232	29450	29646	29806	29926	29978
50	25768	26260	27002	27920	28906	29736	30210	30384	30404
55	23988	25322	26388	26948	27382	27752	27994	28066	28124
60	22158	22998	23928	24706	25246	25500	25498	25488	25516

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CANDELA TABULATION - (Cont.)

65	19694	20666	21018	20920	20892	21082	21196	21198	21146
70	15834	16006	16164	16146	15966	15734	15534	15312	15182
75	10530	10640	10828	11032	10974	10692	10370	10112	10014
80	6552	6406	6092	5650	5192	4788	4528	4388	4330
85	2178	1992	1768	1552	1334	1234	1094	1050	1032
90	226	232	236	240	244	246	248	248	248
95	218	224	228	232	236	238	240	242	242
100	202	206	208	212	214	218	220	220	220
105	174	176	178	180	182	184	184	186	186
110	152	152	152	154	154	156	158	158	158
115	226	150	134	134	136	136	138	138	136
120	1024	644	408	278	234	194	168	154	150
125	1950	1748	1480	1220	1018	828	708	644	622
130	1966	2026	2036	1996	1922	1834	1774	1722	1712
135	1878	1882	1914	1952	1978	2010	2038	2048	2046
140	2022	1996	1948	1892	1872	1880	1896	1896	1890
145	2080	2096	2086	2062	2048	2050	2046	2036	2026
150	1934	1996	2072	2100	2120	2140	2158	2154	2154
155	1786	1852	1902	1940	1956	1982	2018	2034	2032
160	1510	1550	1606	1634	1686	1742	1766	1780	1772
165	1272	1278	1314	1346	1366	1374	1384	1392	1396
170	1108	1128	1146	1166	1188	1204	1218	1218	1222
175	1004	1010	1018	1026	1034	1038	1040	1048	1048
180	988	988	988	988	988	988	988	988	988

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	14777.8	N.A.	11.80
0-30	31366.59	N.A.	25.00
0-40	51283.04	N.A.	40.90
0-60	91857.63	N.A.	73.20
0-80	117094.5	N.A.	93.30
0-90	119182.9	N.A.	95.00
10-90	115380.4	N.A.	92.00
20-40	36505.25	N.A.	29.10
20-50	57209.83	N.A.	45.60
40-70	56746.73	N.A.	45.20
60-80	25236.87	N.A.	20.10
70-80	9064.73	N.A.	7.20
80-90	2088.42	N.A.	1.70
90-110	608.21	N.A.	0.50
90-120	1299.62	N.A.	1.00
90-130	2552.82	N.A.	2.00
90-150	5077.21	N.A.	4.00
90-180	6275.65	N.A.	5.00
110-180	5667.44	N.A.	4.50
0-180	125458.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3802.49
10-20	10975.3
20-30	16588.8
30-40	19916.45
40-50	20704.58
50-60	19870.00
60-70	16172.15
70-80	9064.73
80-90	2088.42
90-100	248.06
100-110	360.15
110-120	691.41
120-130	1253.2
130-140	1398.00
140-150	1126.39
150-160	748.56
160-170	351.81
170-180	98.08

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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	108	108	108	103	103	103	97	97	97	95
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	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	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	68	55	46	40	66	54	45	39	51	44	38	49	43	38	47	41	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	44	36	31	43	35	30	41	35	30	40	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

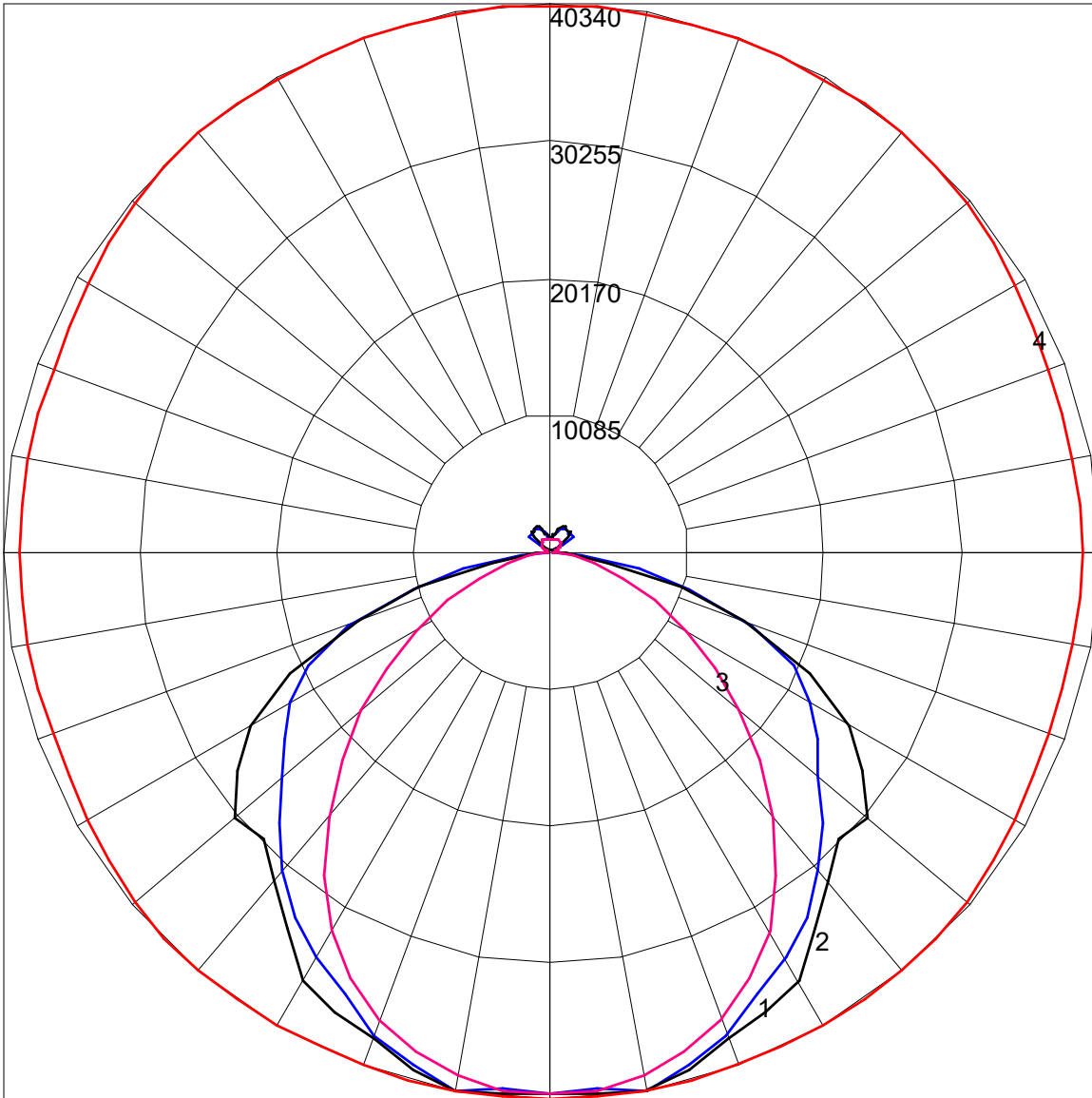
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UGR TABLE - CORRECTED

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	22.7	24.2	23.1	24.7	25.1	26.7	28.3	27.2	28.7	29.1
	3H	23.8	25.2	24.3	25.6	26.1	28.6	30.0	29.1	30.5	30.9
	4H	24.1	25.4	24.6	25.9	26.4	29.2	30.6	29.7	31.0	31.5
	6H	24.3	25.5	24.7	25.9	26.5	29.5	30.8	30.0	31.2	31.7
	8H	24.3	25.5	24.8	25.9	26.5	29.6	30.7	30.1	31.2	31.7
	12H	24.3	25.4	24.8	25.9	26.4	29.6	30.7	30.1	31.2	31.7
4H	2H	24.4	25.7	24.9	26.2	26.7	27.2	28.6	27.7	29.0	29.5
	3H	25.9	27.0	26.4	27.5	28.0	29.4	30.5	29.9	31.0	31.6
	4H	26.4	27.4	26.9	27.9	28.4	30.2	31.2	30.7	31.7	32.3
	6H	26.6	27.5	27.1	28.0	28.6	30.6	31.5	31.1	32.0	32.6
	8H	26.6	27.5	27.2	28.0	28.6	30.7	31.5	31.2	32.0	32.6
	12H	26.6	27.4	27.2	27.9	28.5	30.7	31.4	31.2	32.0	32.6
8H	4H	27.3	28.1	27.8	28.6	29.2	30.5	31.3	31.0	31.8	32.4
	6H	27.7	28.4	28.2	28.9	29.5	31.0	31.6	31.5	32.2	32.8
	8H	27.8	28.4	28.4	29.0	29.6	31.1	31.7	31.7	32.3	32.9
	12H	27.8	28.4	28.4	28.9	29.6	31.1	31.7	31.7	32.2	32.9
12H	4H	27.4	28.1	27.9	28.7	29.3	30.5	31.2	31.0	31.7	32.3
	6H	27.9	28.5	28.5	29.0	29.7	31.0	31.6	31.6	32.2	32.8
	8H	28.0	28.6	28.6	29.2	29.8	31.2	31.7	31.8	32.3	32.9

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 40340 Located At Horizontal Angle = 50, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (50 - 230) (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.)