



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-9-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111035
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-9-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	112591
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	671.44
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)	2.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34517	43358	47317
55	28659	43700	53842
65	21849	47223	53396
75	13282	40409	38207
85	5292	19602	8855

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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	36016	36016	36016	36016	36016	36016	36016	36016	36016	36016
5	35936	35922	35968	35976	35930	35824	35778	35804	35898	35984
10	35342	35346	35336	35266	35380	35592	35836	36098	36324	36444
15	34460	34368	34248	34366	34726	35124	35414	35464	35490	35474
20	33104	32934	32912	33176	33512	33628	33748	33870	34026	34194
25	31350	31164	31190	31462	31574	31676	31818	32124	32402	32430
30	28992	28842	28884	29130	29296	29452	29854	29908	30094	30702
35	26168	26042	26224	26658	26698	27026	27164	27654	28382	29036
40	22876	22886	23366	23722	23884	24164	24812	25680	26448	27034
45	19512	19644	20222	20568	20896	21420	22490	23434	24100	24862
50	16280	16460	16896	17354	17912	18846	20076	20840	21654	22488
55	13228	13370	13660	14224	14974	16228	17256	18234	19362	20582
60	10312	10398	10660	11256	12190	13314	14564	16102	17910	19146
65	7512	7574	7874	8518	9508	10784	12500	14188	15670	16728
70	4952	5028	5370	6022	7148	8552	10064	11548	12850	13670
75	2864	2950	3320	3966	4960	6058	7176	8254	9046	9162
80	1418	1462	1744	2196	2780	3328	3862	4612	5182	5516
85	428	478	580	706	876	1098	1366	1648	1798	1810
90	164	162	162	166	172	176	182	188	196	200
95	242	260	206	176	176	178	182	186	190	196
100	322	422	496	394	190	174	174	176	178	182
105	420	564	732	826	728	348	174	158	156	158
110	536	684	948	1068	1168	1130	722	330	172	138
115	640	790	1128	1288	1376	1438	1462	1248	760	410
120	740	868	1196	1450	1548	1576	1616	1656	1596	1380
125	820	930	1214	1522	1634	1696	1708	1714	1732	1740
130	882	972	1214	1486	1674	1720	1778	1784	1748	1756
135	916	978	1166	1388	1630	1734	1768	1804	1822	1792
140	912	950	1108	1306	1472	1652	1730	1792	1800	1820
145	902	918	1050	1204	1362	1510	1652	1706	1798	1806
150	900	896	998	1112	1250	1356	1452	1604	1640	1718
155	896	894	944	1030	1106	1224	1300	1342	1454	1562
160	878	876	894	948	1002	1058	1124	1194	1244	1284
165	842	840	848	870	906	942	972	1010	1040	1080
170	832	830	836	840	850	866	886	908	928	946
175	858	860	858	856	856	856	856	858	862	864
180	878	878	878	878	878	878	878	878	878	878

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	36016	36016	36016	36016	36016	36016	36016	36016	36016
5	36074	36184	36278	36344	36416	36476	36512	36516	36524
10	36452	36452	36468	36488	36464	36430	36442	36442	36446
15	35414	35442	35440	35488	35628	35718	35724	35748	35732
20	34358	34386	34360	34372	34412	34416	34442	34496	34502
25	32512	32798	33180	33508	33714	33806	33876	33938	33996
30	31308	31638	31996	32378	32636	32782	32840	32808	32798
35	29716	30250	30476	30586	30678	30646	30616	30552	30536
40	27684	28192	28358	28358	28396	28488	28566	28614	28620
45	25418	25866	26128	26284	26472	26672	26862	27004	27050
50	23158	23638	24406	25416	26314	26984	27364	27512	27564
55	21752	22912	23748	24148	24564	24880	25134	25248	25250
60	19886	20722	21564	22238	22656	22854	22884	22862	22858

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CANDELA TABULATION - (Cont.)

65	17682	18534	18736	18640	18636	18806	18862	18822	18796
70	14048	14258	14338	14156	13920	13688	13510	13320	13194
75	9228	9382	9572	9712	9586	9254	8912	8672	8572
80	5622	5448	5176	4776	4362	4010	3786	3656	3598
85	1728	1574	1380	1182	1012	902	844	810	796
90	206	210	214	218	222	224	226	226	228
95	200	204	208	212	214	218	220	220	222
100	184	186	190	194	196	198	202	202	204
105	158	160	162	164	166	168	172	172	172
110	136	138	138	140	142	144	146	146	148
115	226	148	122	124	124	126	128	128	128
120	1018	642	416	278	232	196	170	156	152
125	1676	1558	1386	1166	998	824	704	638	622
130	1754	1762	1746	1704	1640	1584	1546	1516	1508
135	1744	1732	1740	1732	1720	1722	1732	1734	1734
140	1824	1812	1782	1740	1712	1710	1714	1718	1722
145	1818	1838	1840	1832	1824	1824	1824	1824	1828
150	1792	1818	1822	1830	1842	1860	1872	1880	1886
155	1612	1632	1694	1730	1772	1824	1844	1860	1868
160	1312	1392	1450	1508	1548	1578	1608	1618	1626
165	1120	1156	1186	1204	1218	1236	1254	1260	1266
170	960	968	982	994	1002	1010	1026	1034	1042
175	868	872	880	890	896	904	912	916	914
180	878	878	878	878	878	878	878	878	878

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13376.59	N.A.	11.90
0-30	28374.52	N.A.	25.20
0-40	46333.17	N.A.	41.20
0-60	82843.26	N.A.	73.60
0-80	105187.7	N.A.	93.40
0-90	106917.1	N.A.	95.00
10-90	103472.6	N.A.	91.90
20-40	32956.57	N.A.	29.30
20-50	51603.55	N.A.	45.80
40-70	50936.11	N.A.	45.20
60-80	22344.46	N.A.	19.80
70-80	7918.44	N.A.	7.00
80-90	1729.43	N.A.	1.50
90-110	565.52	N.A.	0.50
90-120	1212.33	N.A.	1.10
90-130	2355.83	N.A.	2.10
90-150	4608.61	N.A.	4.10
90-180	5673.71	N.A.	5.00
110-180	5108.2	N.A.	4.50
0-180	112590.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3444.5
10-20	9932.1
20-30	14997.93
30-40	17958.65
40-50	18646.98
50-60	17863.11
60-70	14426.02
70-80	7918.44
80-90	1729.43
90-100	228.83
100-110	336.69
110-120	646.81
120-130	1143.5
130-140	1248.23
140-150	1004.55
150-160	668.12
160-170	311.33
170-180	85.65

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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	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	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	52	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	62	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

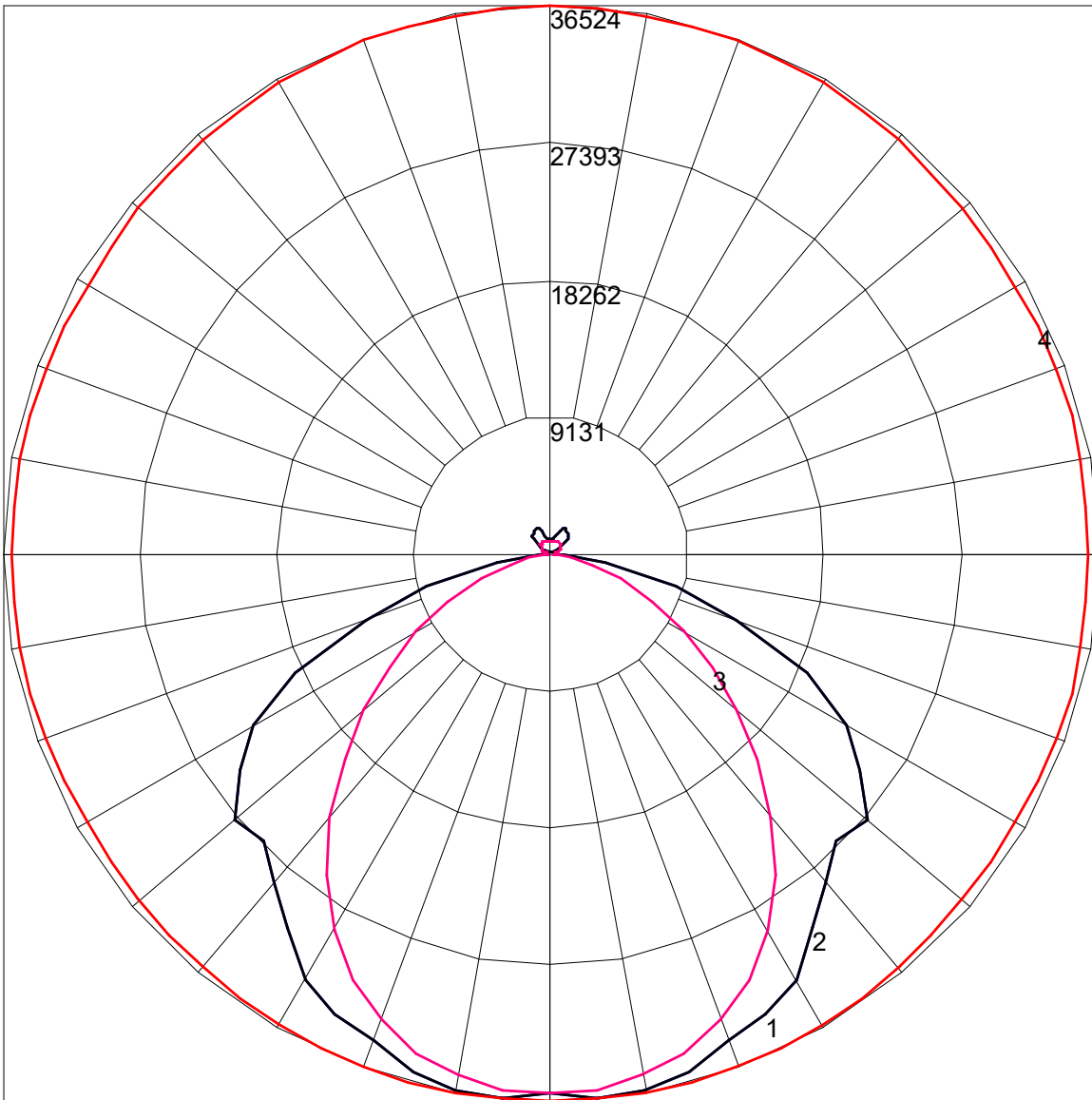
Reflectances

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	22.6	24.2	23.1	24.6	25.0	26.7	28.2	27.1	28.6	29.1
	3H	23.7	25.1	24.1	25.5	26.0	28.5	29.9	29.0	30.4	30.8
	4H	24.0	25.3	24.5	25.7	26.2	29.1	30.4	29.6	30.9	31.4
	6H	24.1	25.3	24.6	25.8	26.3	29.4	30.6	29.9	31.1	31.6
	8H	24.1	25.3	24.6	25.8	26.3	29.4	30.6	29.9	31.1	31.6
	12H	24.1	25.2	24.6	25.7	26.3	29.4	30.5	29.9	31.0	31.5
4H	2H	24.4	25.7	24.8	26.1	26.6	27.2	28.5	27.7	29.0	29.5
	3H	25.9	27.0	26.3	27.4	28.0	29.4	30.5	29.8	30.9	31.5
	4H	26.3	27.3	26.8	27.8	28.3	30.1	31.1	30.6	31.6	32.1
	6H	26.5	27.3	27.0	27.9	28.4	30.4	31.3	31.0	31.8	32.4
	8H	26.5	27.3	27.0	27.8	28.4	30.5	31.3	31.0	31.8	32.4
	12H	26.5	27.2	27.1	27.8	28.4	30.5	31.2	31.1	31.8	32.4
8H	4H	27.1	28.0	27.7	28.5	29.1	30.3	31.1	30.8	31.7	32.2
	6H	27.5	28.2	28.1	28.8	29.4	30.8	31.5	31.4	32.0	32.6
	8H	27.6	28.2	28.2	28.8	29.4	30.9	31.5	31.5	32.1	32.7
	12H	27.6	28.2	28.2	28.7	29.4	30.9	31.4	31.5	32.0	32.7
12H	4H	27.2	28.0	27.8	28.5	29.1	30.3	31.0	30.9	31.6	32.2
	6H	27.7	28.3	28.3	28.9	29.5	30.8	31.4	31.4	32.0	32.6
	8H	27.8	28.4	28.4	29.0	29.6	31.0	31.5	31.5	32.1	32.7

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 36524 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.)