



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-2-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-850-2-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	68501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	413.91
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)	1.92 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	33527	42394	47194
55	27612	42648	53954
65	20776	45748	54251
75	12551	39567	39978
85	5137	19547	10371

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-2-X-CA HO5.IES

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	22006	22006	22006	22006	22006	22006	22006	22006	22006	22006
5	21967	21968	21971	21953	21910	21851	21787	21788	21839	21886
10	21588	21545	21518	21479	21514	21625	21743	21877	22055	22170
15	21025	20929	20850	20897	21054	21336	21542	21506	21534	21538
20	20168	20024	19988	20071	20371	20381	20486	20547	20664	20742
25	19034	18942	18920	19096	19150	19212	19277	19444	19659	19684
30	17611	17505	17519	17669	17760	17840	18113	18165	18264	18586
35	15907	15777	15911	16180	16150	16374	16494	16715	17218	17657
40	13884	13866	14188	14362	14431	14668	14992	15542	16063	16431
45	11829	11905	12275	12413	12640	12986	13600	14232	14602	15052
50	9881	9968	10257	10482	10854	11350	12136	12621	13147	13669
55	8005	8070	8275	8616	9083	9821	10445	11051	11751	12474
60	6228	6261	6436	6825	7389	8075	8836	9731	10762	11608
65	4533	4571	4749	5153	5698	6460	7578	8588	9499	10112
70	3000	3052	3262	3676	4275	5157	6073	7008	7789	8324
75	1755	1807	2034	2400	2978	3630	4377	5015	5528	5653
80	861	910	1076	1354	1689	2043	2363	2817	3181	3419
85	294	319	380	456	562	706	869	1056	1166	1180
90	98	98	98	100	103	106	110	114	118	121
95	141	148	113	103	104	107	109	112	114	117
100	177	232	274	204	109	105	105	106	107	109
105	232	320	412	471	420	189	101	97	96	96
110	300	388	555	608	672	677	374	176	97	84
115	366	446	648	765	790	851	905	712	417	218
120	436	509	716	875	943	940	976	1041	992	802
125	493	559	745	929	1024	1057	1032	1023	1063	1088
130	538	595	749	932	1059	1104	1115	1084	1046	1043
135	572	618	743	890	1033	1112	1131	1133	1109	1064
140	586	620	721	846	977	1076	1125	1134	1129	1115
145	589	615	697	803	905	993	1067	1108	1119	1115
150	591	610	666	749	837	906	970	1022	1046	1054
155	586	597	629	680	736	792	830	859	889	913
160	560	564	579	602	631	663	700	730	753	771
165	532	532	539	550	566	586	606	626	645	665
170	525	524	526	531	539	547	558	567	578	586
175	553	551	548	544	541	542	542	545	548	551
180	555	555	555	555	555	555	555	555	555	555

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	22006	22006	22006	22006	22006	22006	22006	22006	22006
5	21913	21956	21992	22037	22071	22090	22105	22108	22114
10	22170	22126	22117	22147	22159	22158	22157	22155	22155
15	21481	21508	21527	21552	21611	21662	21681	21702	21712
20	20858	20913	20865	20833	20905	20957	20976	20992	21003
25	19773	19923	20098	20342	20470	20568	20618	20642	20663
30	19009	19249	19460	19702	19803	19930	19997	20020	20038
35	18060	18390	18570	18606	18720	18717	18666	18608	18588
40	16815	17117	17270	17302	17314	17411	17451	17460	17465
45	15458	15748	15899	16007	16155	16269	16385	16473	16504
50	14054	14358	14822	15393	15943	16396	16627	16742	16779
55	13165	13883	14467	14780	15006	15232	15378	15442	15447
60	12124	12612	13121	13578	13849	13971	14013	14031	14004

**IES INDOOR REPORT
 PHOTOMETRIC FILENAME : E-11-XX-850-2-X-CA HO5.IES**

CANDELA TABULATION - (Cont.)

65	10748	11267	11460	11430	11420	11540	11616	11639	11620
70	8588	8706	8772	8715	8627	8536	8457	8344	8280
75	5667	5743	5855	5975	5938	5794	5616	5484	5420
80	3506	3433	3282	3049	2800	2604	2464	2384	2351
85	1136	1044	929	807	698	628	589	559	548
90	124	126	129	130	132	133	134	134	134
95	120	122	123	125	126	128	129	129	129
100	111	112	113	114	115	116	117	117	117
105	96	96	96	96	97	97	97	98	97
110	83	82	82	82	82	83	83	83	82
115	123	83	73	73	73	73	74	74	72
120	549	350	222	152	126	105	93	86	82
125	1037	928	774	625	509	416	358	326	318
130	1061	1081	1071	1024	950	896	864	851	847
135	1027	1013	1008	993	972	980	997	1005	1012
140	1089	1059	1003	956	928	931	941	949	956
145	1110	1075	1034	1015	1011	1004	1001	1005	1011
150	1049	1029	1022	1031	1047	1051	1055	1062	1067
155	934	946	965	984	999	1009	1014	1022	1026
160	789	815	836	856	871	882	894	898	898
165	683	696	708	714	722	730	741	740	741
170	594	602	610	619	628	637	646	647	649
175	555	559	563	566	568	570	572	573	571
180	555	555	555	555	555	555	555	555	555

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-2-X-CA HO5.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8128.79	N.A.	11.90
0-30	17236.6	N.A.	25.20
0-40	28150.12	N.A.	41.10
0-60	50333.8	N.A.	73.50
0-80	64012.46	N.A.	93.40
0-90	65118.02	N.A.	95.10
10-90	63022.68	N.A.	92.00
20-40	20021.33	N.A.	29.20
20-50	31347.81	N.A.	45.80
40-70	30980.97	N.A.	45.20
60-80	13678.66	N.A.	20.00
70-80	4881.38	N.A.	7.10
80-90	1105.55	N.A.	1.60
90-110	327.56	N.A.	0.50
90-120	704.55	N.A.	1.00
90-130	1383.92	N.A.	2.00
90-150	2740.27	N.A.	4.00
90-180	3382.56	N.A.	4.90
110-180	3055.00	N.A.	4.50
0-180	68500.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2095.34
10-20	6033.45
20-30	9107.81
30-40	10913.52
40-50	11326.48
50-60	10857.2
60-70	8797.29
70-80	4881.38
80-90	1105.55
90-100	134.35
100-110	193.21
110-120	376.99
120-130	679.37
130-140	751.01
140-150	605.34
150-160	399.42
160-170	188.80
170-180	54.07

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-2-X-CA HO5.IES

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

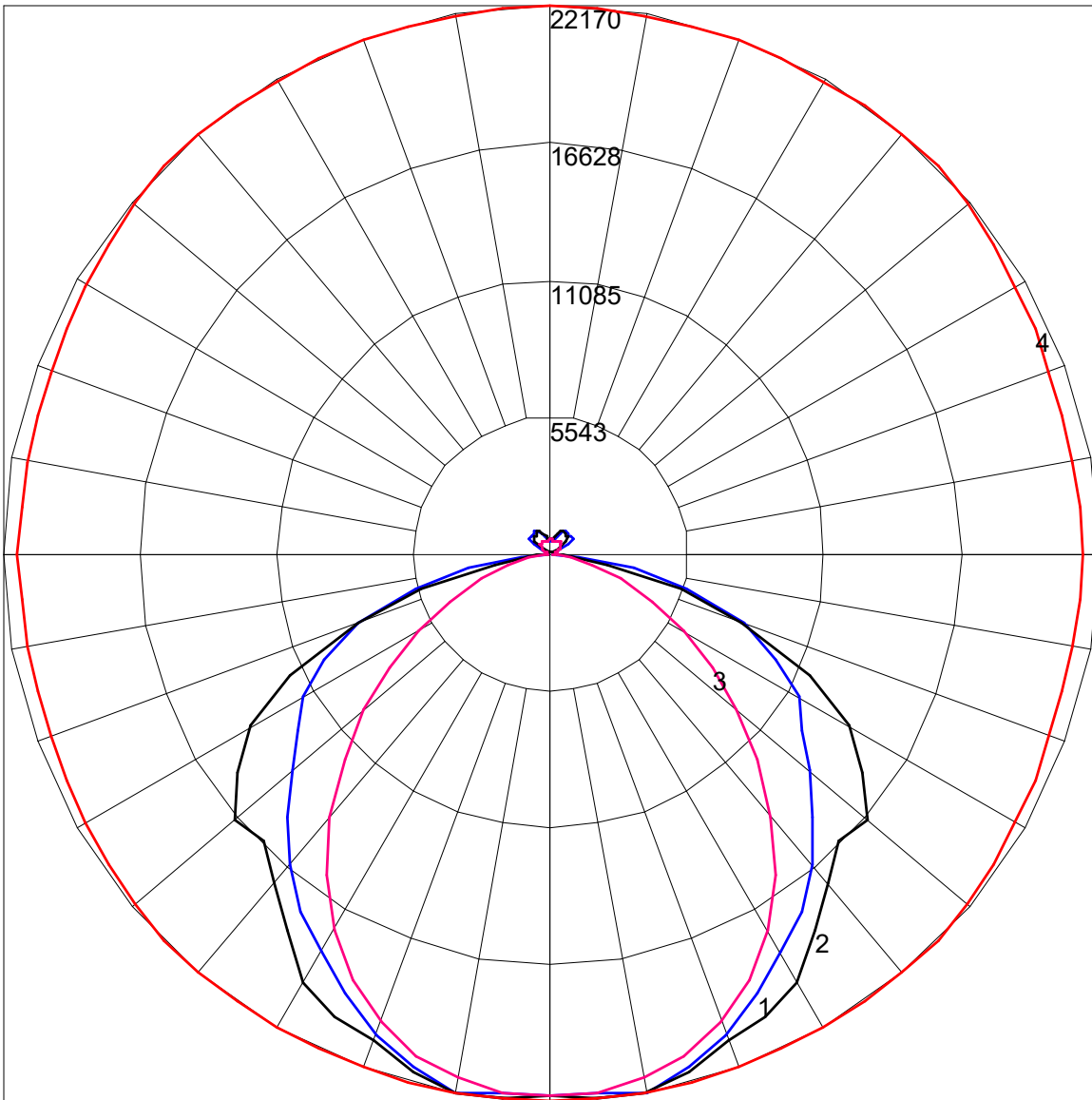
IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-11-XX-850-2-X-CA HO5.IES

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	24.5	25.0	26.6	28.2	27.1	28.6	29.0
	3H	23.7	25.1	24.1	25.5	26.0	28.5	29.9	29.0	30.3	30.8
	4H	24.0	25.3	24.4	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	31.6
4H	2H	24.3	25.6	24.8	26.1	26.6	27.2	28.5	27.6	28.9	29.4
	3H	25.8	26.9	26.3	27.4	27.9	29.3	30.4	29.8	30.9	31.4
	4H	26.2	27.2	26.7	27.7	28.3	30.0	31.0	30.5	31.5	32.1
	6H	26.4	27.3	27.0	27.8	28.4	30.4	31.3	31.0	31.8	32.4
	8H	26.4	27.3	27.0	27.8	28.4	30.5	31.3	31.0	31.8	32.4
	12H	26.5	27.2	27.0	27.7	28.3	30.5	31.2	31.1	31.8	32.4
8H	4H	27.1	27.9	27.6	28.4	29.0	30.3	31.1	30.8	31.6	32.2
	6H	27.5	28.2	28.1	28.7	29.3	30.8	31.5	31.4	32.0	32.6
	8H	27.6	28.2	28.1	28.8	29.4	30.9	31.5	31.5	32.1	32.7
	12H	27.6	28.1	28.2	28.7	29.4	30.9	31.5	31.5	32.0	32.7
12H	4H	27.2	27.9	27.7	28.5	29.1	30.3	31.0	30.8	31.6	32.2
	6H	27.7	28.3	28.3	28.8	29.5	30.8	31.4	31.4	32.0	32.6
	8H	27.8	28.3	28.4	28.9	29.6	31.0	31.5	31.5	32.1	32.7

Maximum UGR = 32.7

POLAR GRAPH



- Maximum Candela = 22170 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.)