



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-10-XX-850-2-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-850-2-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	62729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	169
Total Luminaire Watts	370.8
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)	1.92 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	33965	42703	47114
55	28127	42901	53940
65	21438	46284	54130
75	13172	40440	40371
85	5601	20399	10541

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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	19940	19940	19940	19940	19940	19940	19940	19940	19940	19940
5	19925	19924	19908	19908	19888	19842	19784	19748	19755	19793
10	19619	19581	19561	19538	19519	19610	19744	19878	20023	20137
15	19126	19052	18969	18975	19145	19422	19633	19589	19592	19579
20	18371	18266	18180	18293	18555	18638	18688	18737	18796	18873
25	17388	17270	17229	17399	17482	17542	17591	17762	17942	17943
30	16122	16007	15988	16170	16248	16325	16537	16603	16631	16919
35	14541	14438	14538	14809	14796	14978	15101	15259	15702	16089
40	12750	12714	13019	13193	13261	13443	13717	14203	14671	15006
45	10878	10931	11270	11434	11619	11907	12473	13021	13370	13784
50	9095	9184	9435	9666	10003	10450	11119	11564	12049	12534
55	7402	7470	7650	7952	8385	9040	9606	10143	10789	11415
60	5794	5834	5996	6318	6863	7460	8145	8988	9925	10646
65	4246	4285	4449	4805	5323	6002	6921	7880	8736	9316
70	2831	2877	3062	3425	4003	4795	5633	6459	7198	7679
75	1672	1720	1920	2272	2819	3431	4065	4646	5150	5272
80	830	881	1034	1285	1626	1960	2245	2656	2996	3199
85	291	315	375	444	543	679	844	1016	1117	1132
90	87	87	89	91	93	96	100	103	107	110
95	133	138	103	94	95	97	99	102	105	107
100	177	228	260	187	101	95	95	96	98	99
105	225	309	388	442	377	166	93	87	87	87
110	277	364	510	565	636	619	366	173	87	76
115	338	424	601	706	724	780	826	653	370	196
120	395	477	649	798	843	834	863	937	904	728
125	439	512	655	832	921	926	912	911	964	1005
130	478	541	663	815	925	976	985	968	936	952
135	498	544	662	769	888	953	1004	1015	1002	972
140	502	536	640	719	831	921	964	998	1026	1022
145	497	524	595	699	758	847	912	965	961	1017
150	495	514	560	650	711	758	826	855	922	967
155	494	510	534	587	657	694	728	776	814	837
160	487	495	511	533	573	617	654	671	694	719
165	469	475	486	497	510	534	563	587	613	626
170	464	467	473	480	488	496	502	513	526	542
175	479	480	481	479	480	484	487	491	496	499
180	494	494	494	494	494	494	494	494	494	494

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	19940	19940	19940	19940	19940	19940	19940	19940	19940
5	19837	19888	19940	19973	20006	20043	20058	20075	20100
10	20170	20143	20108	20115	20129	20142	20142	20139	20142
15	19545	19553	19587	19592	19623	19680	19728	19741	19749
20	18978	19045	19022	18954	18950	18999	19043	19057	19066
25	17951	18113	18275	18483	18605	18672	18730	18763	18769
30	17301	17510	17712	17922	18019	18106	18184	18227	18245
35	16466	16733	16922	16951	17024	17047	16989	16964	16965
40	15341	15620	15732	15762	15781	15834	15880	15891	15897
45	14146	14385	14523	14616	14725	14823	14903	14963	14989
50	12884	13130	13501	13960	14453	14868	15105	15192	15202
55	11994	12661	13194	13474	13691	13876	13997	14033	14062
60	11079	11499	11964	12353	12623	12750	12749	12744	12758

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CANDELA TABULATION - (Cont.)

65	9847	10333	10509	10460	10446	10541	10598	10599	10573
70	7917	8003	8082	8073	7983	7867	7767	7656	7591
75	5265	5320	5414	5516	5487	5346	5185	5056	5007
80	3276	3203	3046	2825	2596	2394	2264	2194	2165
85	1089	996	884	776	667	617	547	525	516
90	113	116	118	120	122	123	124	124	124
95	109	112	114	116	118	119	120	121	121
100	101	103	104	106	107	109	110	110	110
105	87	88	89	90	91	92	92	93	93
110	76	76	76	77	77	78	79	79	79
115	113	75	67	67	68	68	69	69	68
120	512	322	204	139	117	97	84	77	75
125	975	874	740	610	509	414	354	322	311
130	983	1013	1018	998	961	917	887	861	856
135	939	941	957	976	989	1005	1019	1024	1023
140	1011	998	974	946	936	940	948	948	945
145	1040	1048	1043	1031	1024	1025	1023	1018	1013
150	967	998	1036	1050	1060	1070	1079	1077	1077
155	893	926	951	970	978	991	1009	1017	1016
160	755	775	803	817	843	871	883	890	886
165	636	639	657	673	683	687	692	696	698
170	554	564	573	583	594	602	609	609	611
175	502	505	509	513	517	519	520	524	524
180	494	494	494	494	494	494	494	494	494

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7388.9	N.A.	11.80
0-30	15683.29	N.A.	25.00
0-40	25641.52	N.A.	40.90
0-60	45928.81	N.A.	73.20
0-80	58547.25	N.A.	93.30
0-90	59591.46	N.A.	95.00
10-90	57690.21	N.A.	92.00
20-40	18252.62	N.A.	29.10
20-50	28604.91	N.A.	45.60
40-70	28373.37	N.A.	45.20
60-80	12618.44	N.A.	20.10
70-80	4532.36	N.A.	7.20
80-90	1044.21	N.A.	1.70
90-110	304.11	N.A.	0.50
90-120	649.81	N.A.	1.00
90-130	1276.41	N.A.	2.00
90-150	2538.6	N.A.	4.00
90-180	3137.83	N.A.	5.00
110-180	2833.72	N.A.	4.50
0-180	62729.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1901.24
10-20	5487.65
20-30	8294.4
30-40	9958.22
40-50	10352.29
50-60	9935.00
60-70	8086.07
70-80	4532.36
80-90	1044.21
90-100	124.03
100-110	180.08
110-120	345.70
120-130	626.60
130-140	699.00
140-150	563.20
150-160	374.28
160-170	175.91
170-180	49.04

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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	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

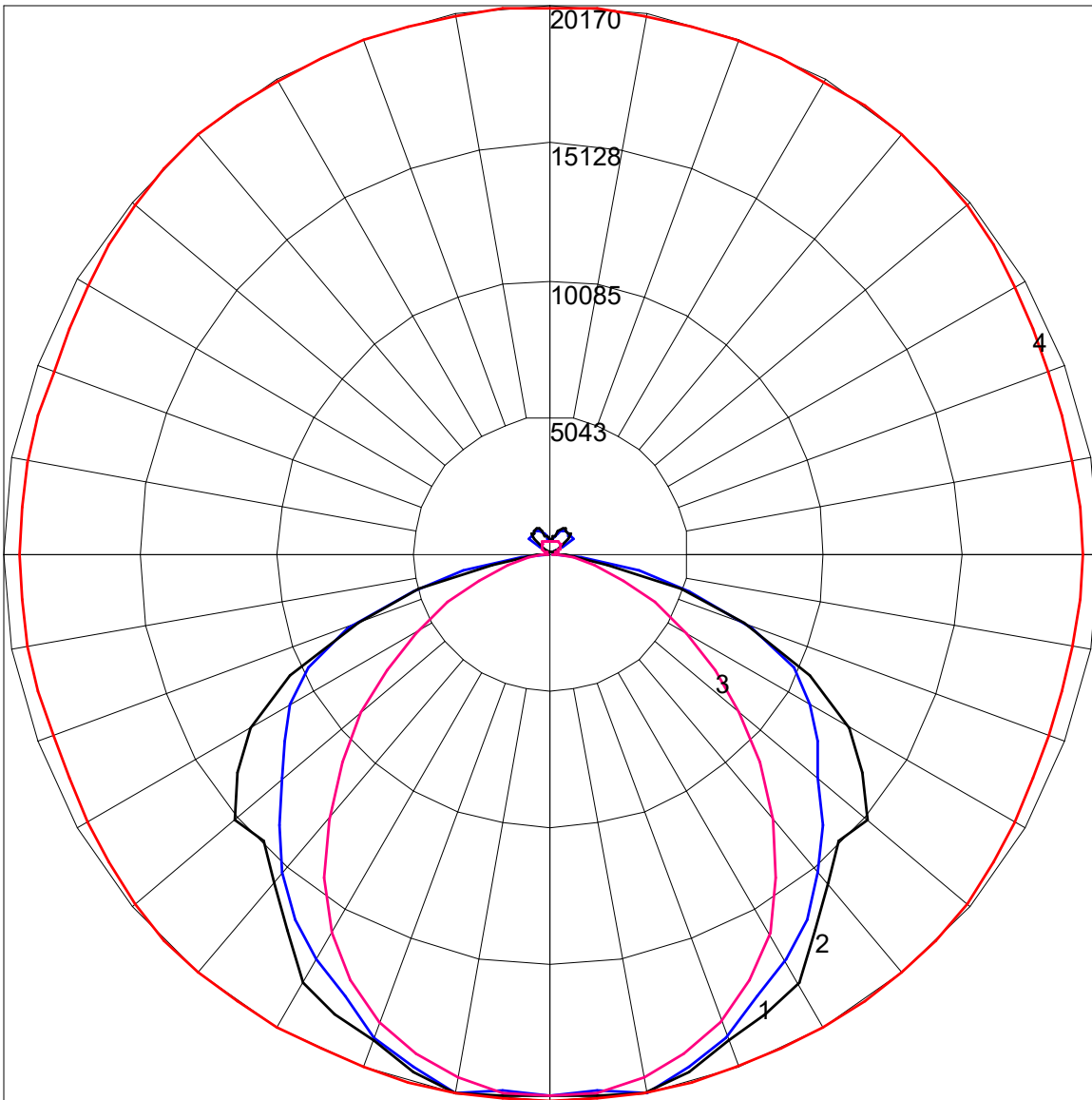
Reflectances

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	24.6	25.1	26.6	28.2	27.1	28.6	29.0
	3H	23.8	25.2	24.2	25.6	26.1	28.5	29.9	29.0	30.4	30.8
	4H	24.1	25.4	24.6	25.8	26.3	29.1	30.4	29.6	30.9	31.4
	6H	24.2	25.5	24.7	25.9	26.4	29.4	30.6	29.9	31.1	31.6
	8H	24.3	25.4	24.8	25.9	26.4	29.4	30.6	29.9	31.1	31.6
	12H	24.3	25.4	24.8	25.9	26.4	29.5	30.6	30.0	31.0	31.6
4H	2H	24.4	25.7	24.8	26.1	26.6	27.2	28.5	27.6	28.9	29.4
	3H	25.9	27.0	26.4	27.5	28.0	29.3	30.4	29.8	30.9	31.5
	4H	26.3	27.3	26.8	27.8	28.4	30.1	31.1	30.6	31.6	32.1
	6H	26.5	27.4	27.1	28.0	28.5	30.5	31.3	31.0	31.9	32.4
	8H	26.6	27.4	27.1	27.9	28.5	30.5	31.3	31.1	31.9	32.5
	12H	26.6	27.3	27.2	27.9	28.5	30.5	31.3	31.1	31.8	32.4
8H	4H	27.2	28.0	27.7	28.6	29.1	30.3	31.1	30.9	31.7	32.3
	6H	27.6	28.3	28.2	28.9	29.5	30.8	31.5	31.4	32.1	32.7
	8H	27.7	28.3	28.3	28.9	29.5	30.9	31.5	31.5	32.1	32.7
	12H	27.7	28.3	28.3	28.9	29.5	31.0	31.5	31.6	32.1	32.8
12H	4H	27.3	28.0	27.9	28.6	29.2	30.3	31.1	30.9	31.6	32.2
	6H	27.8	28.4	28.4	29.0	29.6	30.9	31.5	31.5	32.0	32.7
	8H	28.0	28.5	28.5	29.1	29.7	31.0	31.6	31.6	32.1	32.8

Maximum UGR = 32.8

POLAR GRAPH



- Maximum Candela = 20170 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.)