



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111030
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-4-SA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2
 [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	50428
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	305.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23511	28224	30617
55	19500	28223	35129
65	14890	30637	35472
75	9196	27892	27303
85	4005	19089	15103

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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	16172	16172	16172	16172	16172	16172	16172	16172	16172	16172
5	16062	16064	16098	16120	16104	16052	16010	15994	15994	16000
10	15844	15834	15832	15766	15762	15828	15964	16140	16268	16314
15	15438	15394	15292	15310	15480	15750	15878	15890	15836	15812
20	14854	14730	14670	14806	15030	15102	15094	15170	15132	15204
25	14070	13932	13926	14114	14172	14190	14244	14382	14518	14388
30	13016	12906	12938	13084	13144	13168	13458	13364	13304	13512
35	11768	11674	11758	12012	11962	12200	12130	12204	12496	12722
40	10318	10270	10546	10662	10754	10822	10938	11264	11564	11778
45	8780	8814	9126	9262	9386	9498	9844	10240	10480	10794
50	7334	7396	7622	7800	7988	8220	8742	9054	9414	9776
55	5946	5994	6158	6372	6596	7092	7496	7924	8376	8900
60	4640	4668	4796	5002	5346	5800	6358	6976	7706	8354
65	3382	3404	3516	3750	4106	4636	5408	6178	6834	7312
70	2236	2272	2382	2646	3048	3720	4402	5106	5674	6124
75	1310	1338	1482	1740	2162	2666	3254	3716	4158	4316
80	640	666	782	1002	1270	1586	1864	2244	2546	2762
85	214	234	294	374	482	634	830	1022	1172	1262
90	72	80	100	134	180	240	320	406	500	588
95	84	90	102	130	166	214	270	338	404	466
100	106	122	132	150	176	212	248	290	336	370
105	130	164	188	216	240	230	250	272	290	308
110	160	200	250	276	316	358	324	290	290	294
115	192	230	296	342	374	412	488	428	378	334
120	228	262	332	396	418	466	456	554	562	478
125	260	288	352	406	482	478	526	498	558	598
130	288	308	354	416	480	540	520	564	556	506
135	308	324	362	400	456	524	574	526	582	576
140	320	330	356	370	438	488	544	590	556	548
145	326	334	350	380	386	468	508	544	572	608
150	334	340	350	372	384	402	470	506	534	558
155	344	346	350	358	376	382	396	428	478	512
160	344	344	348	350	354	366	376	382	398	420
165	338	338	340	342	342	344	348	356	364	370
170	340	340	340	340	340	340	340	342	344	350
175	352	352	352	352	352	350	350	350	350	350
180	360	360	360	360	360	360	360	360	360	360

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	16172	16172	16172	16172	16172	16172	16172	16172	16172
5	16036	16094	16154	16206	16260	16308	16342	16354	16354
10	16328	16344	16356	16340	16324	16316	16324	16316	16302
15	15862	15850	15810	15804	15900	15982	16044	16062	16062
20	15422	15406	15328	15304	15296	15274	15272	15256	15254
25	14370	14446	14652	14792	14834	14894	14932	14960	14974
30	13752	13870	14044	14146	14264	14376	14440	14462	14468
35	12966	13200	13306	13372	13414	13374	13386	13410	13418
40	12050	12224	12366	12374	12430	12438	12454	12502	12530
45	11058	11248	11354	11448	11540	11626	11690	11712	11720
50	10040	10220	10500	10926	11374	11716	11956	12056	12070
55	9376	9924	10398	10592	10772	10924	11010	11060	11092
60	8710	9040	9412	9764	9990	10074	10122	10144	10134

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CANDELA TABULATION - (Cont.)

65	7772	8188	8354	8328	8312	8404	8472	8486	8482
70	6316	6414	6500	6498	6476	6422	6360	6290	6246
75	4372	4458	4540	4618	4588	4500	4372	4276	4238
80	2866	2844	2776	2640	2488	2346	2244	2190	2166
85	1308	1308	1252	1166	1090	1046	1024	1012	1006
90	660	688	682	674	670	662	652	646	642
95	508	530	540	540	534	524	518	514	512
100	394	416	430	434	434	430	428	426	426
105	320	332	344	354	360	364	366	366	366
110	292	292	294	300	304	308	310	314	314
115	316	300	294	290	288	286	288	288	288
120	430	382	348	322	316	312	302	298	298
125	602	556	488	462	434	408	392	384	382
130	572	618	616	620	610	586	560	548	542
135	564	524	516	562	602	616	620	622	618
140	594	592	582	574	554	532	524	520	520
145	580	560	576	600	610	612	608	608	604
150	580	608	624	616	600	592	590	590	592
155	534	552	572	586	596	606	618	628	626
160	448	476	500	524	544	558	566	572	572
165	376	384	396	412	426	436	442	452	456
170	352	356	356	354	352	350	352	354	354
175	352	352	352	352	352	354	354	360	360
180	360	360	360	360	360	360	360	360	360

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5979.46	N.A.	11.90
0-30	12643.24	N.A.	25.10
0-40	20573.19	N.A.	40.80
0-60	36580.24	N.A.	72.50
0-80	46705.43	N.A.	92.60
0-90	47870.6	N.A.	94.90
10-90	46330.07	N.A.	91.90
20-40	14593.73	N.A.	28.90
20-50	22774.91	N.A.	45.20
40-70	22408.49	N.A.	44.40
60-80	10125.19	N.A.	20.10
70-80	3723.76	N.A.	7.40
80-90	1165.16	N.A.	2.30
90-110	727.94	N.A.	1.40
90-120	1056.84	N.A.	2.10
90-130	1464.00	N.A.	2.90
90-150	2188.66	N.A.	4.30
90-180	2557.65	N.A.	5.10
110-180	1829.7	N.A.	3.60
0-180	50428.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1540.53
10-20	4438.92
20-30	6663.79
30-40	7929.95
40-50	8181.18
50-60	7825.88
60-70	6401.43
70-80	3723.76
80-90	1165.16
90-100	413.92
100-110	314.03
110-120	328.89
120-130	407.16
130-140	401.63
140-150	323.04
150-160	224.24
160-170	111.20
170-180	33.54

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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	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	74	82	77	72	78	73	70	74	70	67	65
3	88	78	69	63	85	76	68	62	72	65	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	52	64	56	51	61	55	50	58	53	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	41	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	30	39	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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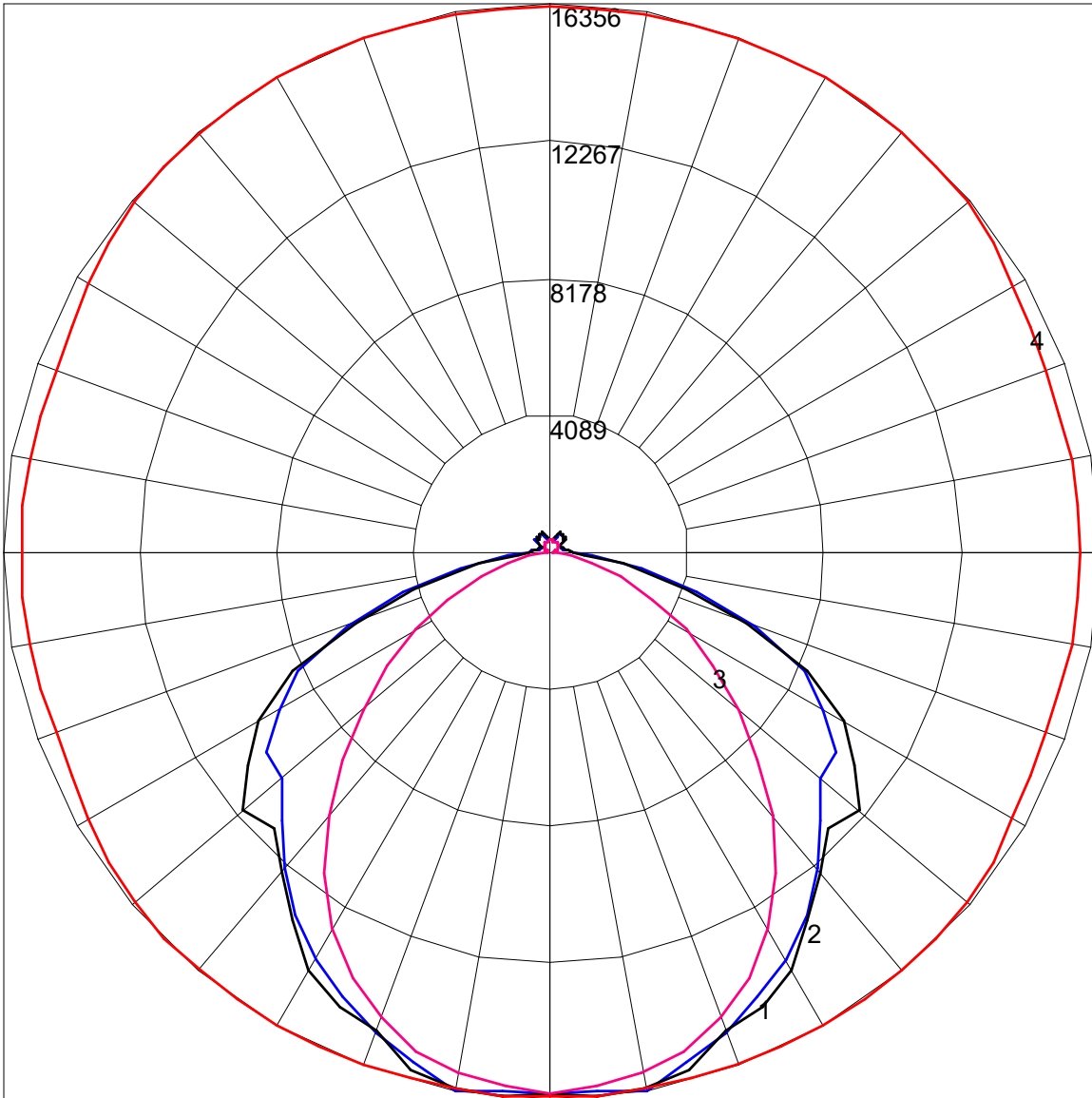
UGR TABLE - CORRECTED

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	21.1	22.6	21.5	23.0	23.5	25.2	26.7	25.6	27.1	27.6
	3H	22.2	23.6	22.6	24.0	24.5	27.2	28.6	27.6	29.0	29.5
	4H	22.4	23.8	22.9	24.2	24.7	27.8	29.2	28.3	29.6	30.1
	6H	22.6	23.8	23.1	24.3	24.8	28.2	29.5	28.7	29.9	30.4
	8H	22.6	23.8	23.1	24.2	24.8	28.3	29.5	28.8	30.0	30.5
	12H	22.6	23.7	23.1	24.2	24.7	28.4	29.5	28.9	30.0	30.6
4H	2H	22.8	24.1	23.3	24.6	25.1	25.7	27.0	26.2	27.4	27.9
	3H	24.3	25.4	24.8	25.9	26.4	28.0	29.1	28.5	29.6	30.1
	4H	24.7	25.7	25.2	26.2	26.8	28.8	29.8	29.3	30.3	30.9
	6H	24.9	25.8	25.4	26.3	26.9	29.3	30.2	29.8	30.7	31.3
	8H	24.9	25.7	25.5	26.3	26.9	29.5	30.3	30.0	30.8	31.4
	12H	24.9	25.7	25.5	26.2	26.8	29.6	30.3	30.1	30.9	31.5
8H	4H	25.7	26.5	26.2	27.0	27.6	29.0	29.9	29.6	30.4	31.0
	6H	26.1	26.8	26.6	27.3	27.9	29.7	30.4	30.3	31.0	31.6
	8H	26.2	26.8	26.7	27.4	28.0	29.9	30.6	30.5	31.1	31.7
	12H	26.2	26.8	26.8	27.3	28.0	30.1	30.7	30.7	31.2	31.9
12H	4H	25.8	26.5	26.3	27.1	27.7	29.0	29.8	29.6	30.4	30.9
	6H	26.3	27.0	26.9	27.5	28.1	29.7	30.4	30.3	30.9	31.6
	8H	26.5	27.0	27.1	27.6	28.3	30.0	30.6	30.6	31.2	31.8

Maximum UGR = 31.9

POLAR GRAPH



Maximum Candela = 16356 Located At Horizontal Angle = 60, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (60 - 240) (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.)