



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-2-XX-850-2-X-CA HO5_18K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111019
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-2*-SA-850-2-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	18397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	115.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25915	29513	32647
55	21237	29224	37064
65	15927	31402	37275
75	9367	28860	28862
85	3453	21899	20344

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	5989	5989	5989	5989	5989	5989	5989	5989	5989	5989
5	5951	5950	5959	5985	5973	5923	5890	5877	5876	5879
10	5868	5859	5868	5810	5789	5809	5854	5897	5942	6001
15	5731	5689	5643	5628	5671	5745	5828	5791	5790	5812
20	5509	5443	5409	5416	5519	5518	5544	5594	5642	5682
25	5190	5136	5106	5161	5184	5240	5306	5383	5385	5283
30	4797	4764	4734	4797	4866	4921	5016	4921	4830	4856
35	4336	4297	4299	4429	4463	4550	4456	4392	4477	4555
40	3794	3775	3872	3969	4021	3975	3936	4025	4130	4183
45	3239	3237	3361	3450	3459	3420	3506	3632	3699	3814
50	2696	2713	2813	2877	2887	2917	3087	3182	3318	3464
55	2181	2198	2267	2307	2343	2490	2620	2784	2956	3145
60	1698	1704	1748	1769	1873	2021	2213	2458	2728	2954
65	1231	1240	1255	1310	1422	1611	1882	2175	2424	2598
70	806	816	830	909	1060	1293	1546	1797	2032	2203
75	464	467	500	594	750	943	1151	1328	1508	1597
80	220	225	261	346	448	574	695	843	962	1053
85	70	78	104	139	186	251	338	430	511	575
90	26	31	45	68	99	144	198	264	326	376
95	29	33	44	60	88	123	162	206	247	276
100	35	39	48	61	72	94	128	163	192	210
105	41	47	59	76	96	103	114	129	144	158
110	48	55	69	91	117	139	139	139	142	143
115	54	66	77	100	123	151	169	177	160	154
120	63	75	83	118	134	148	169	198	192	191
125	70	81	87	118	148	160	165	184	200	208
130	78	84	92	112	150	165	168	186	176	188
135	84	83	90	108	142	168	177	165	195	179
140	88	85	88	107	125	156	175	184	170	179
145	91	91	84	102	118	134	160	175	187	187
150	96	95	90	95	113	123	134	154	169	179
155	100	99	95	92	101	114	122	129	140	154
160	102	101	98	96	96	101	110	116	123	128
165	102	101	99	98	96	95	98	101	106	112
170	103	103	102	101	99	98	97	97	97	98
175	108	108	107	107	106	106	105	104	104	103
180	107	107	107	107	107	107	107	107	107	107

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	5989	5989	5989	5989	5989	5989	5989	5989	5989
5	5892	5906	5923	5942	5968	5987	5999	6005	6005
10	5990	5970	5959	5973	5992	6004	6012	6016	6013
15	5847	5871	5891	5905	5962	5999	6019	6026	6024
20	5741	5701	5637	5599	5586	5581	5576	5570	5565
25	5220	5237	5273	5346	5361	5367	5374	5380	5384
30	4944	4978	5034	5082	5110	5163	5188	5193	5193
35	4640	4708	4769	4760	4802	4812	4789	4776	4769
40	4273	4360	4407	4410	4419	4459	4461	4456	4460
45	3933	4005	4039	4065	4105	4136	4161	4191	4204
50	3560	3631	3744	3896	4052	4179	4253	4289	4299
55	3336	3524	3677	3772	3835	3903	3946	3963	3969
60	3079	3219	3371	3493	3564	3588	3606	3607	3605

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65	2776	2926	2975	2974	2986	3031	3057	3060	3062
70	2272	2305	2341	2364	2390	2396	2381	2371	2367
75	1636	1686	1720	1745	1723	1681	1628	1591	1579
80	1103	1110	1096	1053	1000	952	920	900	893
85	609	621	607	575	547	533	527	523	521
90	411	422	410	396	384	372	361	355	352
95	292	298	298	289	277	266	259	254	253
100	217	222	227	225	218	212	208	206	205
105	165	171	176	179	179	179	179	179	180
110	143	143	144	146	149	152	156	158	159
115	153	147	145	143	142	143	144	146	148
120	172	161	157	156	156	157	156	156	156
125	193	205	191	178	169	163	162	162	163
130	201	215	201	190	199	206	203	201	200
135	175	184	187	196	204	208	208	207	206
140	198	187	175	174	178	180	181	182	181
145	175	171	187	197	200	196	189	187	185
150	188	192	190	183	178	176	176	176	176
155	167	173	179	185	189	192	194	195	196
160	132	141	149	156	160	165	168	169	170
165	115	118	122	125	128	131	133	134	134
170	99	101	102	103	104	105	106	107	108
175	103	103	103	103	103	102	101	102	102
180	107	107	107	107	107	107	107	107	107

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2204.63	N.A.	12.00
0-30	4639.33	N.A.	25.20
0-40	7508.29	N.A.	40.80
0-60	13233.82	N.A.	71.90
0-80	16891.91	N.A.	91.80
0-90	17404.29	N.A.	94.60
10-90	16837.19	N.A.	91.50
20-40	5303.66	N.A.	28.80
20-50	8239.27	N.A.	44.80
40-70	8012.61	N.A.	43.60
60-80	3658.1	N.A.	19.90
70-80	1371.01	N.A.	7.50
80-90	512.38	N.A.	2.80
90-110	374.66	N.A.	2.00
90-120	511.03	N.A.	2.80
90-130	654.74	N.A.	3.60
90-150	882.86	N.A.	4.80
90-180	992.75	N.A.	5.40
110-180	618.09	N.A.	3.40
0-180	18397.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	567.11
10-20	1637.53
20-30	2434.7
30-40	2868.96
40-50	2935.61
50-60	2789.91
60-70	2287.08
70-80	1371.01
80-90	512.38
90-100	226.50
100-110	148.16
110-120	136.37
120-130	143.72
130-140	128.92
140-150	99.19
150-160	67.28
160-170	32.73
170-180	9.88

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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	10
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	85	82	80	78
2	97	88	81	75	94	86	80	74	82	76	72	77	73	69	74	70	67	64
3	88	77	69	62	85	75	68	61	72	65	60	68	63	58	65	60	56	54
4	81	68	59	53	78	67	58	52	63	56	51	60	54	49	58	52	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
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

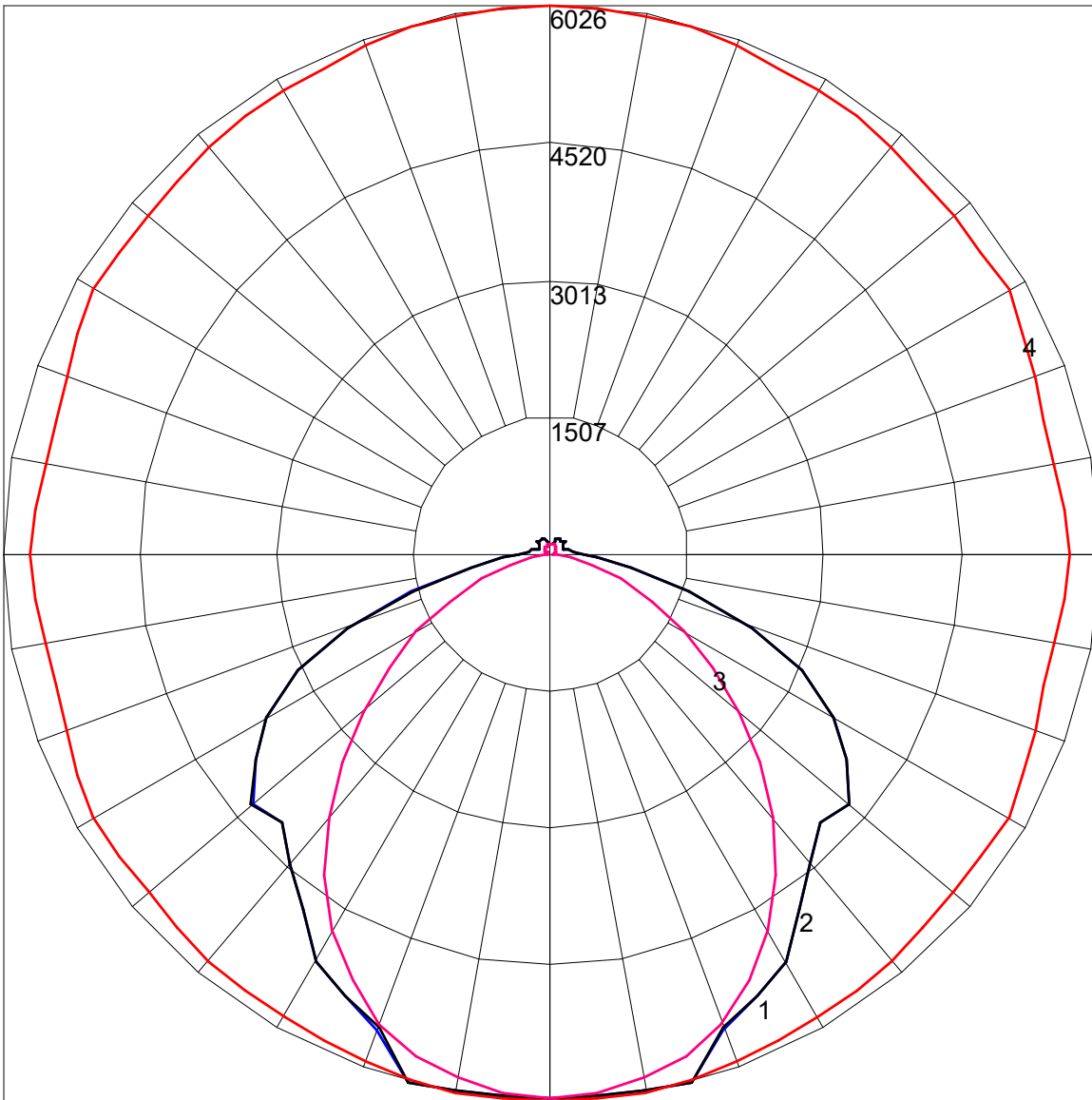
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UGR TABLE - CORRECTED

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	23.1	23.5	25.2	26.8	25.7	27.2	27.7
	3H	22.1	23.5	22.6	24.0	24.4	27.4	28.8	27.8	29.2	29.7
	4H	22.4	23.7	22.9	24.2	24.7	28.0	29.4	28.5	29.8	30.3
	6H	22.5	23.7	23.0	24.2	24.7	28.5	29.7	29.0	30.2	30.7
	8H	22.5	23.7	23.0	24.2	24.7	28.6	29.8	29.1	30.3	30.8
	12H	22.5	23.6	23.0	24.1	24.7	28.7	29.9	29.3	30.4	30.9
4H	2H	22.8	24.1	23.3	24.6	25.1	25.7	27.1	26.2	27.5	28.0
	3H	24.2	25.3	24.7	25.8	26.4	28.1	29.2	28.6	29.7	30.2
	4H	24.6	25.6	25.1	26.1	26.7	29.0	30.0	29.5	30.5	31.0
	6H	24.8	25.7	25.3	26.2	26.8	29.5	30.4	30.1	31.0	31.5
	8H	24.8	25.7	25.4	26.2	26.8	29.8	30.6	30.3	31.1	31.7
	12H	24.8	25.6	25.4	26.1	26.7	29.9	30.7	30.5	31.2	31.8
8H	4H	25.7	26.5	26.2	27.0	27.6	29.2	30.1	29.8	30.6	31.2
	6H	26.0	26.8	26.6	27.3	27.9	30.0	30.7	30.5	31.2	31.8
	8H	26.1	26.8	26.7	27.4	28.0	30.3	30.9	30.8	31.5	32.1
	12H	26.2	26.7	26.8	27.3	28.0	30.5	31.1	31.1	31.7	32.3
12H	4H	25.8	26.6	26.4	27.1	27.7	29.2	30.0	29.8	30.5	31.1
	6H	26.3	27.0	26.9	27.5	28.2	30.0	30.6	30.6	31.2	31.8
	8H	26.5	27.1	27.1	27.7	28.3	30.4	30.9	31.0	31.5	32.2

Maximum UGR = 32.3

POLAR GRAPH



- Maximum Candela = 6026 Located At Horizontal Angle = 85, Vertical Angle = 15
- # 1 - Vertical Plane Through Horizontal Angles (85 - 265) (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 (15) (Through Max. Cd.)