



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-4-L54-840-AF-(L15)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20306.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 10-19-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' WALL MNT BED LIGHT LED
 [MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM
 [LUMCAT] 29-4-L54-840-AF-(L15)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Corridor, Healthcare, Direct-Indirect
 [_SEARCH_MOUNTING] Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	11.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.40 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2644	2024	1195
55	2835	2144	1166
65	2660	2013	1101
75	2438	1725	1029
85	2168	1481	994

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	164.228	164.228	164.228	164.228	164.228	164.228	164.228	164.228	164.228
5	162.042	158.690	161.168	158.399	165.539	144.847	139.747	134.792	133.189
10	184.920	178.508	175.157	164.519	165.102	141.932	133.189	127.069	125.612
15	213.336	204.155	190.603	170.494	164.228	138.144	125.612	119.783	117.014
20	248.600	234.028	209.547	176.323	162.479	131.878	117.451	110.457	107.979
25	290.714	272.207	229.511	182.443	159.273	125.612	108.708	100.256	97.196
30	332.099	308.346	251.952	186.523	154.756	118.034	97.779	88.307	84.373
35	373.192	343.611	273.227	189.292	148.490	107.542	85.976	76.066	71.403
40	407.436	374.212	290.568	189.000	140.475	95.885	73.443	63.534	58.434
45	430.023	395.050	302.371	185.795	130.275	83.790	61.786	51.585	46.631
50	440.515	403.648	303.974	177.780	118.471	71.403	49.545	39.782	35.556
55	432.792	395.050	294.357	165.976	105.502	59.746	38.179	29.436	25.793
60	404.522	369.986	272.790	149.510	91.367	47.651	27.396	19.089	15.884
65	367.072	335.304	243.646	128.818	76.212	36.285	17.341	10.200	7.286
70	330.059	299.603	209.693	107.105	61.494	24.773	7.432	1.311	0.000
75	290.422	257.052	174.283	85.976	47.214	14.135	0.000	0.000	0.000
80	247.143	214.939	142.370	66.157	33.953	4.080	0.000	0.000	0.000
85	209.547	182.880	115.557	48.525	20.984	1.894	0.000	0.000	0.000
90	182.880	155.485	93.553	35.410	17.778	2.623	0.000	0.000	0.437
95	179.237	152.570	90.930	39.782	27.687	9.909	4.080	5.100	5.537
100	177.197	150.530	96.759	53.188	37.742	17.487	12.386	10.929	8.160
105	178.508	158.836	114.391	68.780	47.505	25.064	20.255	19.527	11.075
110	196.141	176.906	136.832	87.870	59.891	30.019	28.416	28.853	29.144
115	223.828	204.447	166.705	112.205	74.318	34.244	35.702	38.908	40.073
120	247.435	231.842	203.718	143.098	90.201	37.013	38.179	48.379	50.128
125	282.408	268.127	238.691	174.283	106.085	42.405	39.345	52.751	57.268
130	323.210	308.929	278.036	199.929	121.677	49.545	42.842	50.565	61.786
135	361.243	345.214	309.949	222.808	136.541	54.645	46.777	43.862	63.389
140	386.453	370.423	329.913	237.380	147.616	56.394	49.545	42.842	62.223
145	394.904	378.001	322.627	240.877	155.630	63.534	51.731	44.299	55.374
150	381.790	366.197	323.793	237.817	161.459	71.403	51.731	48.234	40.219
155	350.897	339.093	301.497	227.617	163.353	83.644	51.585	50.711	33.079
160	310.678	298.146	270.604	214.793	164.374	96.030	59.309	52.168	37.596
165	264.484	254.138	238.983	198.618	164.811	112.642	77.378	56.831	48.525
170	213.190	208.964	202.552	181.131	165.394	125.175	103.171	77.524	68.489
175	166.996	165.394	169.765	165.976	166.268	139.892	129.838	117.014	104.482
180	161.605	161.605	161.605	161.605	161.605	161.605	161.605	161.605	161.605

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	60.18	N.A.	3.80
0-30	139.55	N.A.	8.90
0-40	252.82	N.A.	16.10
0-60	538.50	N.A.	34.30
0-80	762.62	N.A.	48.60
0-90	828.42	N.A.	52.80
10-90	813.69	N.A.	51.80
20-40	192.64	N.A.	12.30
20-50	331.99	N.A.	21.10
40-70	413.73	N.A.	26.40
60-80	224.12	N.A.	14.30
70-80	96.07	N.A.	6.10
80-90	65.81	N.A.	4.20
90-110	132.10	N.A.	8.40
90-120	231.17	N.A.	14.70
90-130	353.38	N.A.	22.50
90-150	600.66	N.A.	38.30
90-180	741.51	N.A.	47.20
110-180	609.42	N.A.	38.80
0-180	1569.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.74
10-20	45.45
20-30	79.37
30-40	113.27
40-50	139.36
50-60	146.33
60-70	128.05
70-80	96.07
80-90	65.81
90-100	58.40
100-110	73.70
110-120	99.07
120-130	122.21
130-140	131.59
140-150	115.69
150-160	81.49
160-170	44.95
170-180	14.42

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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
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	96	91	86	82	89	84	80	76	71	68	65	59	57	55	49	47	45	40
2	87	78	71	65	80	72	66	61	61	56	52	51	47	44	41	39	36	32
3	78	68	59	53	72	62	55	49	53	47	42	44	40	36	36	32	30	25
4	71	59	50	44	65	55	47	41	46	40	35	38	34	30	31	28	25	21
5	65	52	43	37	59	48	40	34	41	35	30	34	29	25	28	24	21	17
6	60	46	38	31	55	43	35	29	36	30	25	30	25	22	25	21	18	15
7	55	42	33	27	50	39	31	25	33	27	22	27	22	19	22	18	15	13
8	51	38	29	24	47	35	27	22	30	24	19	25	20	16	20	16	14	11
9	47	34	26	21	43	32	24	20	27	21	17	23	18	15	19	15	12	10
10	44	31	24	18	40	29	22	17	25	19	15	21	16	13	17	13	11	9

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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

X=2H	Y=2H	16.7	17.6	17.6	18.6	19.8	6.9	7.9	7.9	8.9	10.1
	3H	19.4	20.3	20.3	21.2	22.5	8.4	9.3	9.3	10.2	11.5
	4H	20.7	21.5	21.6	22.5	23.7	8.9	9.7	9.8	10.7	11.9
	6H	21.9	22.7	22.9	23.7	25.0	9.3	10.1	10.2	11.0	12.3
	8H	22.6	23.3	23.5	24.3	25.6	9.4	10.1	10.3	11.1	12.4
	12H	23.3	24.0	24.2	25.0	26.3	9.5	10.2	10.4	11.2	12.4

UGR Viewed Endwise

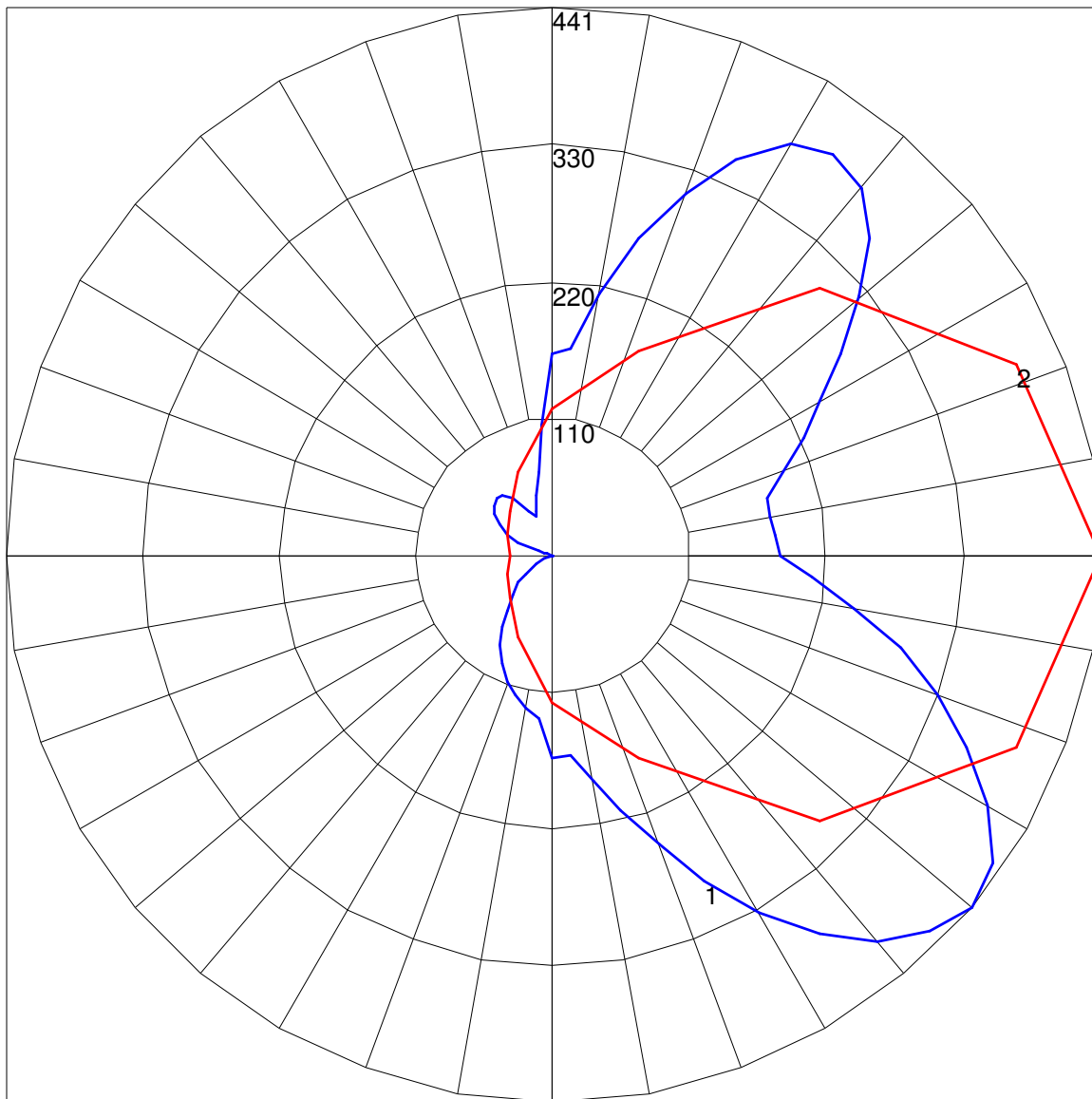
4H	2H	16.8	17.7	17.8	18.6	19.9	9.2	10.1	10.2	11.0	12.3
	3H	19.8	20.5	20.7	21.5	22.7	10.7	11.4	11.7	12.4	13.7
	4H	21.3	21.9	22.2	22.9	24.2	11.2	11.9	12.2	12.9	14.1
	6H	22.7	23.3	23.7	24.3	25.6	11.6	12.2	12.5	13.2	14.4
	8H	23.5	24.0	24.5	25.0	26.3	11.7	12.2	12.7	13.2	14.5
	12H	24.3	24.8	25.3	25.8	27.1	11.8	12.3	12.8	13.3	14.6

8H	4H	21.3	21.9	22.3	22.8	24.2	12.7	13.2	13.6	14.2	15.5
	6H	23.0	23.4	24.0	24.4	25.7	13.2	13.7	14.2	14.7	16.0
	8H	23.8	24.3	24.8	25.3	26.6	13.4	13.8	14.4	14.8	16.1
	12H	24.8	25.2	25.9	26.2	27.6	13.5	13.9	14.5	14.9	16.2

12H	4H	21.3	21.8	22.3	22.8	24.1	13.1	13.6	14.1	14.6	15.9
	6H	22.9	23.4	23.9	24.4	25.7	13.8	14.2	14.8	15.2	16.5
	8H	23.9	24.2	24.9	25.3	26.6	14.0	14.4	15.1	15.4	16.8

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 440.515 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)