



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L27-840-AF-(L12)-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] 01-11-2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
[LUMINAIRE] 2' WALL MNT BED LIGHT LED
[MORE] WITH FROSTED PRISMATIC DIFFUSER TOP/BTM
[LUMCAT] 29-2-L27-840-AF-(L12)-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	1252
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	10
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)	2.00 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4172	3108	1790
55	4475	3269	1712
65	4198	3044	1568
75	3847	2578	1384
85	3421	2175	1129

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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	130.964	130.964	130.964	130.964	130.964	130.964	130.964	130.964	130.964
5	129.221	126.548	128.524	126.316	132.010	115.508	111.441	107.490	106.212
10	147.465	142.352	139.679	131.196	131.661	113.184	106.212	101.331	100.169
15	170.125	162.804	151.997	135.961	130.964	110.163	100.169	95.521	93.313
20	198.247	186.626	167.104	140.609	129.569	105.166	93.662	88.084	86.108
25	231.830	217.072	183.024	145.490	127.013	100.169	86.689	79.950	77.509
30	264.833	245.891	200.920	148.743	123.410	94.127	77.974	70.421	67.283
35	297.603	274.013	217.886	150.951	118.414	85.760	68.561	60.659	56.941
40	324.911	298.416	231.714	150.719	112.022	76.463	58.568	50.666	46.598
45	342.923	315.034	241.127	148.162	103.888	66.818	49.271	41.137	37.186
50	351.290	321.890	242.405	141.771	94.475	56.941	39.510	31.724	28.354
55	345.131	315.034	234.736	132.358	84.133	47.644	30.446	23.474	20.568
60	322.587	295.046	217.537	119.227	72.861	37.999	21.847	15.223	12.666
65	292.722	267.389	194.296	102.726	60.776	28.935	13.828	8.134	5.810
70	263.206	238.919	167.220	85.411	49.039	19.755	5.926	1.046	0.000
75	231.598	204.987	138.982	68.561	37.651	11.272	0.000	0.000	0.000
80	197.085	171.403	113.533	52.757	27.076	3.254	0.000	0.000	0.000
85	167.104	145.838	92.151	38.696	16.734	1.511	0.000	0.000	0.000
90	145.838	123.991	74.604	28.238	14.177	2.092	0.000	0.000	0.349
95	142.933	121.667	72.512	31.724	22.079	7.902	3.254	4.067	4.416
100	141.306	120.040	77.161	42.415	30.097	13.945	9.877	8.715	6.508
105	142.352	126.664	91.221	54.849	37.883	19.987	16.153	15.572	8.832
110	156.413	141.074	109.117	70.072	47.761	23.938	22.660	23.009	23.241
115	178.492	163.037	132.939	89.478	59.265	27.308	28.470	31.027	31.957
120	197.317	184.883	162.456	114.114	71.931	29.516	30.446	38.580	39.975
125	225.207	213.818	190.345	138.982	84.598	33.816	31.376	42.066	45.669
130	257.744	246.356	221.720	159.434	97.032	39.510	34.164	40.323	49.271
135	288.074	275.291	247.170	177.679	108.885	43.577	37.302	34.978	50.549
140	308.178	295.395	263.090	189.299	117.716	44.972	39.510	34.164	49.620
145	314.917	301.438	257.279	192.088	124.108	50.666	41.253	35.327	44.158
150	304.459	292.025	258.209	189.648	128.756	56.941	41.253	38.464	32.073
155	279.823	270.411	240.430	181.513	130.267	66.702	41.137	40.440	26.379
160	247.751	237.757	215.794	171.287	131.080	76.580	47.296	41.602	29.981
165	210.913	202.663	190.577	158.388	131.429	89.827	61.705	45.320	38.696
170	170.009	166.639	161.526	144.444	131.893	99.821	82.274	61.821	54.617
175	133.172	131.893	135.380	132.358	132.591	111.557	103.539	93.313	83.319
180	128.872	128.872	128.872	128.872	128.872	128.872	128.872	128.872	128.872

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	47.99	N.A.	3.80
0-30	111.29	N.A.	8.90
0-40	201.61	N.A.	16.10
0-60	429.43	N.A.	34.30
0-80	608.15	N.A.	48.60
0-90	660.63	N.A.	52.80
10-90	648.88	N.A.	51.80
20-40	153.62	N.A.	12.30
20-50	264.75	N.A.	21.10
40-70	329.93	N.A.	26.40
60-80	178.72	N.A.	14.30
70-80	76.61	N.A.	6.10
80-90	52.48	N.A.	4.20
90-110	105.34	N.A.	8.40
90-120	184.35	N.A.	14.70
90-130	281.80	N.A.	22.50
90-150	479.00	N.A.	38.30
90-180	591.32	N.A.	47.20
110-180	485.98	N.A.	38.80
0-180	1251.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	11.75
10-20	36.24
20-30	63.29
30-40	90.33
40-50	111.13
50-60	116.69
60-70	102.11
70-80	76.61
80-90	52.48
90-100	46.57
100-110	58.77
110-120	79.01
120-130	97.46
130-140	104.94
140-150	92.25
150-160	64.98
160-170	35.85
170-180	11.50

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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	18.0	19.0	19.0	20.0	21.2	8.5	9.4	9.4	10.4	11.6
	3H	20.7	21.6	21.6	22.5	23.8	9.9	10.8	10.8	11.8	13.0
	4H	21.9	22.8	22.8	23.7	25.0	10.4	11.3	11.4	12.2	13.5
	6H	23.1	23.9	24.1	24.9	26.1	10.8	11.6	11.7	12.5	13.8
	8H	23.7	24.5	24.7	25.4	26.7	10.9	11.7	11.9	12.6	13.9
	12H	24.3	25.0	25.3	26.0	27.3	11.0	11.7	12.0	12.7	14.0

UGR Viewed Endwise

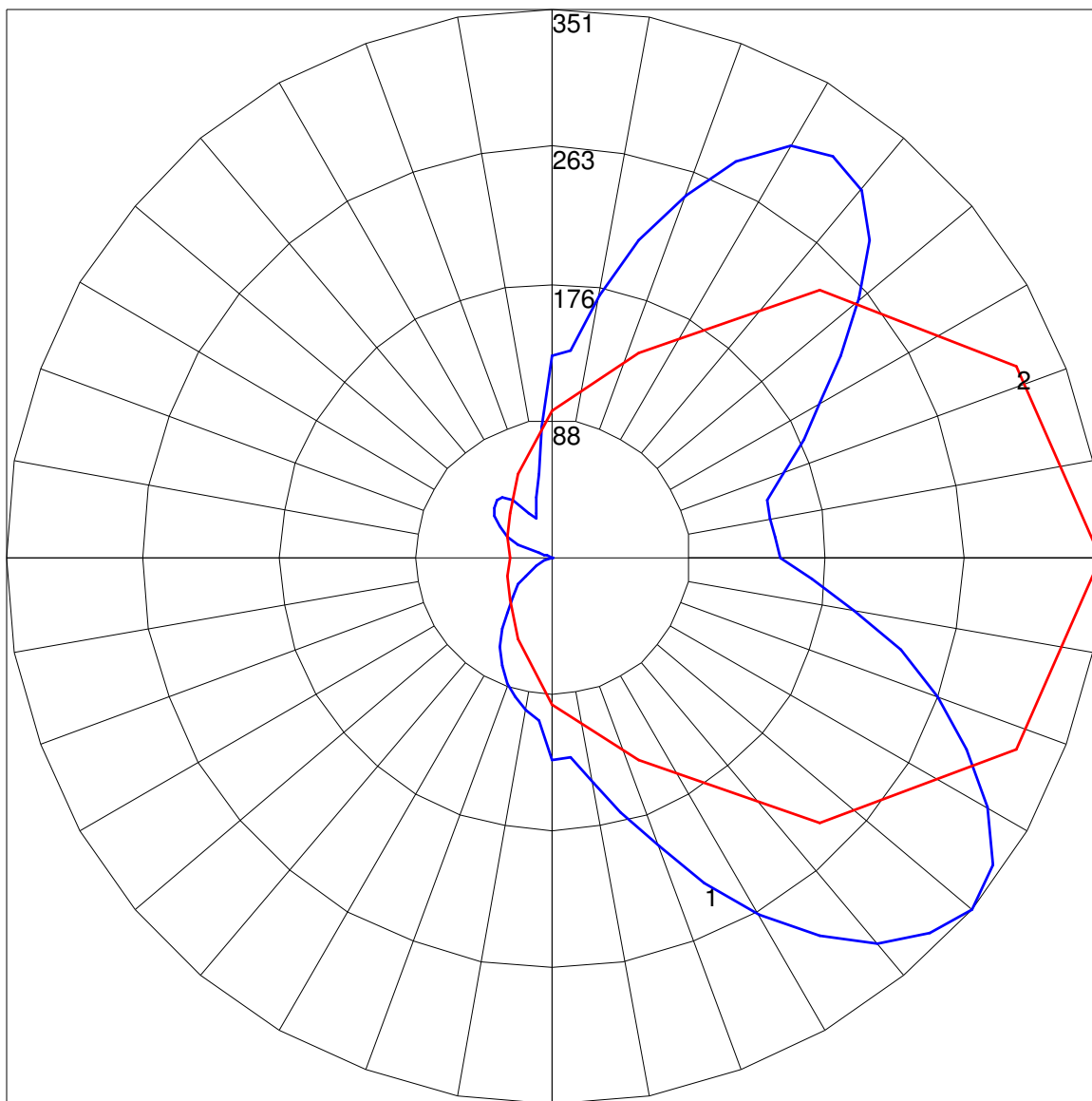
4H	2H	18.2	19.0	19.1	20.0	21.3	10.7	11.6	11.6	12.5	13.8
	3H	21.1	21.8	22.0	22.8	24.1	12.2	12.9	13.2	13.9	15.2
	4H	22.5	23.2	23.5	24.2	25.4	12.7	13.4	13.7	14.3	15.6
	6H	23.9	24.5	24.9	25.5	26.8	13.1	13.6	14.0	14.6	15.9
	8H	24.6	25.2	25.6	26.2	27.5	13.2	13.7	14.2	14.7	16.0
	12H	25.4	25.8	26.3	26.9	28.2	13.3	13.8	14.3	14.8	16.1

8H	4H	22.6	23.1	23.6	24.1	25.4	14.1	14.6	15.1	15.6	16.9
	6H	24.1	24.6	25.2	25.6	26.9	14.6	15.1	15.6	16.1	17.4
	8H	25.0	25.4	26.0	26.4	27.7	14.8	15.2	15.8	16.3	17.6
	12H	25.9	26.3	26.9	27.3	28.7	14.9	15.3	16.0	16.3	17.7

12H	4H	22.5	23.0	23.5	24.0	25.4	14.5	15.0	15.5	16.0	17.3
	6H	24.1	24.6	25.1	25.6	26.9	15.2	15.6	16.2	16.6	18.0
	8H	25.0	25.4	26.0	26.4	27.8	15.5	15.8	16.5	16.9	18.2

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 351.29 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.)