



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L54-835-AF 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] 03-17-2020
[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-L54-835-A-DIM UNV
[LAMPCAT] HLM 80 CRI, 3500K 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	5484
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	44
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)	0.66 ft
Luminous Width (90-270)	2.05 ft
Luminous Height	0.42 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10270	7409	4232
55	10916	7661	3936
65	10134	6988	3462
75	9163	5762	2853
85	7997	4676	1982

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L54-835-AF DIM-UNV_.IES

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	573.647	573.647	573.647	573.647	573.647	573.647	573.647	573.647	573.647
5	566.012	554.305	562.958	553.287	578.228	505.949	488.134	470.828	465.229
10	645.925	623.529	611.822	574.665	576.701	495.769	465.229	443.851	438.761
15	745.181	713.114	665.776	595.534	573.647	482.535	438.761	418.401	408.730
20	868.359	817.459	731.947	615.894	567.539	460.648	410.257	385.824	377.171
25	1015.461	950.818	801.680	637.272	556.341	438.761	379.716	350.194	339.505
30	1160.018	1077.051	880.067	651.524	540.561	412.293	341.541	308.456	294.713
35	1303.557	1200.230	954.381	661.195	518.674	375.644	300.312	265.700	249.412
40	1423.173	1307.120	1014.952	660.177	490.679	334.924	256.538	221.925	204.110
45	1502.069	1379.908	1056.182	648.979	455.049	292.677	215.817	180.187	162.881
50	1538.717	1409.939	1061.781	620.984	413.820	249.412	173.061	138.958	124.197
55	1511.740	1379.908	1028.187	579.755	368.518	208.691	133.359	102.819	90.094
60	1412.993	1292.359	952.854	522.237	319.145	166.444	95.693	66.679	55.481
65	1282.179	1171.216	851.053	449.959	266.209	126.742	60.571	35.630	25.450
70	1152.892	1046.511	732.456	374.117	214.799	86.531	25.959	4.581	0.000
75	1014.443	897.882	608.768	300.312	164.917	49.373	0.000	0.000	0.000
80	863.269	750.780	497.296	231.087	118.598	14.252	0.000	0.000	0.000
85	731.947	638.799	403.640	169.498	73.296	6.617	0.000	0.000	0.000
90	638.799	543.106	326.780	123.688	62.098	9.162	0.000	0.000	1.527
95	626.074	532.926	317.618	138.958	96.711	34.612	14.252	17.815	19.342
100	618.948	525.800	337.978	185.786	131.832	61.080	43.265	38.175	28.504
105	623.529	554.814	399.568	240.250	165.935	87.549	70.751	68.206	38.684
110	685.118	617.930	477.954	306.929	209.200	104.855	99.256	100.783	101.801
115	781.829	714.132	582.300	391.932	259.592	119.616	124.706	135.904	139.976
120	864.287	809.824	711.587	499.841	315.073	129.287	133.359	168.989	175.097
125	986.448	936.566	833.747	608.768	370.554	148.120	137.431	184.259	200.038
130	1128.969	1079.087	971.178	698.352	425.018	173.061	149.647	176.624	215.817
135	1261.819	1205.829	1082.650	778.266	476.936	190.876	163.390	153.210	221.416
140	1349.877	1293.886	1152.383	829.166	515.620	196.984	173.061	149.647	217.344
145	1379.399	1320.354	1126.933	841.382	543.615	221.925	180.696	154.737	193.421
150	1333.588	1279.125	1131.005	830.693	563.976	249.412	180.696	168.480	140.485
155	1225.680	1184.450	1053.128	795.063	570.593	292.168	180.187	177.133	115.544
160	1085.195	1041.421	945.219	750.271	574.156	335.433	207.164	182.223	131.323
165	923.841	887.702	834.765	693.771	575.683	393.459	270.281	198.511	169.498
170	744.672	729.911	707.514	632.691	577.719	437.234	360.374	270.790	239.232
175	583.318	577.719	592.989	579.755	580.773	488.643	453.522	408.730	364.955
180	564.485	564.485	564.485	564.485	564.485	564.485	564.485	564.485	564.485

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L54-835-AF DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	210.22	N.A.	3.80
0-30	487.45	N.A.	8.90
0-40	883.10	N.A.	16.10
0-60	1880.98	N.A.	34.30
0-80	2663.82	N.A.	48.60
0-90	2893.68	N.A.	52.80
10-90	2842.21	N.A.	51.80
20-40	672.88	N.A.	12.30
20-50	1159.65	N.A.	21.10
40-70	1445.16	N.A.	26.40
60-80	782.84	N.A.	14.30
70-80	335.56	N.A.	6.10
80-90	229.87	N.A.	4.20
90-110	461.41	N.A.	8.40
90-120	807.47	N.A.	14.70
90-130	1234.35	N.A.	22.50
90-150	2098.09	N.A.	38.30
90-180	2590.1	N.A.	47.20
110-180	2128.68	N.A.	38.80
0-180	5483.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.47
10-20	158.75
20-30	277.23
30-40	395.65
40-50	486.77
50-60	511.11
60-70	447.28
70-80	335.56
80-90	229.87
90-100	203.99
100-110	257.42
110-120	346.06
120-130	426.88
130-140	459.65
140-150	404.09
150-160	284.63
160-170	157.01
170-180	50.36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L54-835-AF DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L54-835-AF DIM-UNV_.IES

UGR TABLE - CORRECTED

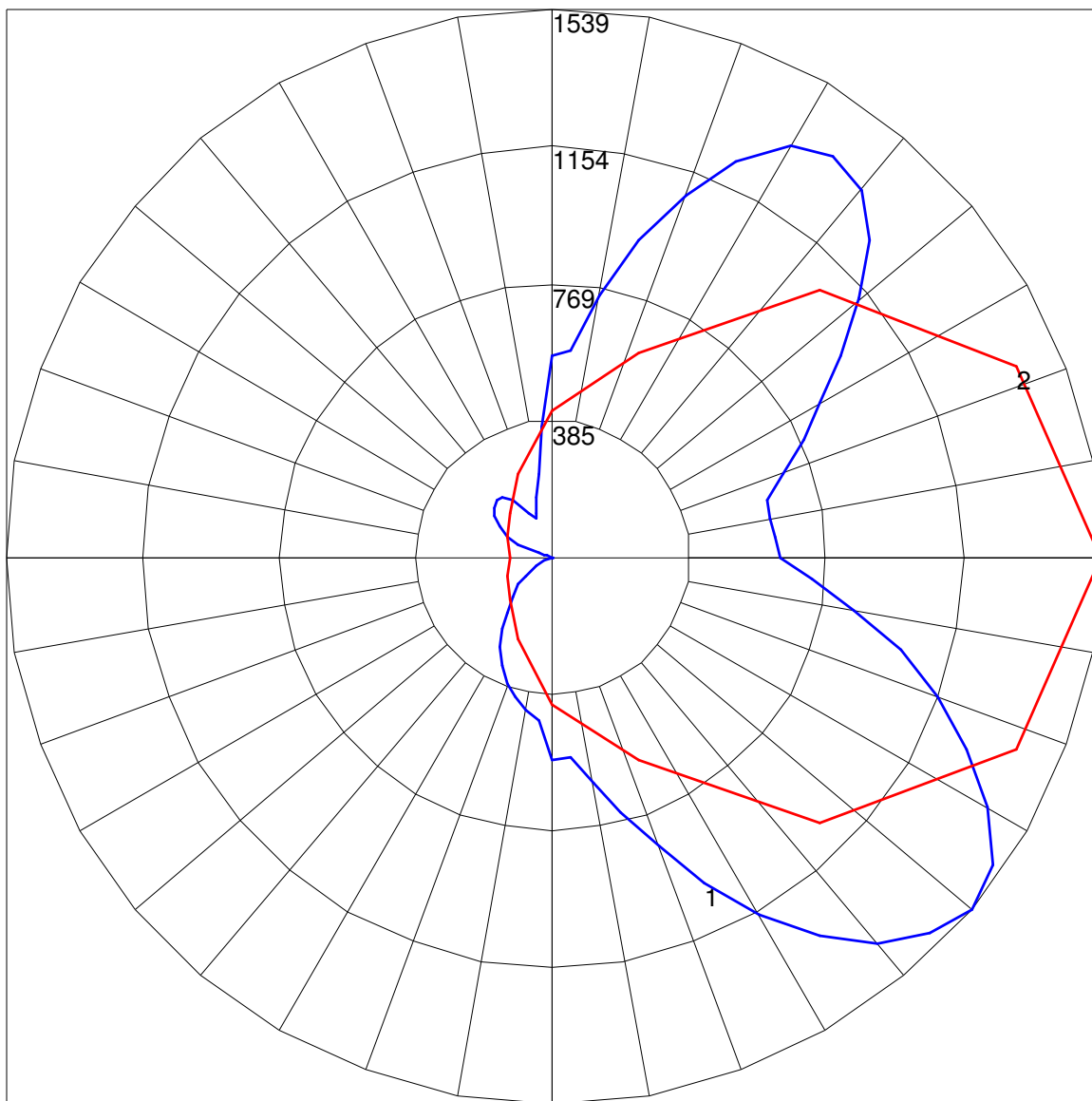
Reflectances

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	20.9	21.9	21.8	22.8	24.0	11.5	12.4	12.4	13.4	14.6
	3H	23.4	24.3	24.4	25.3	26.5	12.9	13.8	13.8	14.7	16.0
	4H	24.6	25.5	25.5	26.4	27.7	13.4	14.2	14.3	15.2	16.4
	6H	25.7	26.5	26.7	27.5	28.8	13.8	14.5	14.7	15.5	16.8
	8H	26.3	27.0	27.2	28.0	29.3	13.9	14.6	14.8	15.6	16.9
	12H	26.8	27.5	27.8	28.5	29.8	14.0	14.7	14.9	15.7	16.9
4H	2H	21.0	21.9	22.0	22.9	24.1	13.6	14.5	14.6	15.4	16.7
	3H	23.8	24.6	24.8	25.6	26.8	15.1	15.8	16.1	16.8	18.1
	4H	25.2	25.9	26.2	26.9	28.1	15.6	16.3	16.6	17.3	18.5
	6H	26.5	27.1	27.5	28.1	29.4	16.0	16.6	16.9	17.6	18.8
	8H	27.2	27.7	28.2	28.7	30.0	16.1	16.6	17.1	17.6	18.9
	12H	27.8	28.3	28.8	29.3	30.7	16.2	16.7	17.2	17.7	19.0
8H	4H	25.3	25.8	26.3	26.8	28.1	17.0	17.5	17.9	18.5	19.8
	6H	26.8	27.2	27.8	28.3	29.6	17.5	17.9	18.5	19.0	20.3
	8H	27.6	28.0	28.6	29.0	30.3	17.7	18.1	18.7	19.1	20.4
	12H	28.4	28.8	29.4	29.8	31.1	17.8	18.2	18.8	19.2	20.5
12H	4H	25.2	25.7	26.2	26.8	28.1	17.3	17.8	18.3	18.8	20.1
	6H	26.8	27.2	27.8	28.2	29.5	18.0	18.4	19.0	19.4	20.8
	8H	27.6	28.0	28.6	29.0	30.3	18.3	18.6	19.3	19.7	21.0

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 1538.717 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.)