



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L27-835-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] FROSTED PRISMATIC DIFFUSER TOP/BTM
 [LUMCAT] 29-2-L27-835-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	2686
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	23.1
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	5030	3629	2073
55	5346	3752	1928
65	4964	3423	1696
75	4488	2822	1397
85	3917	2290	971

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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	280.966	280.966	280.966	280.966	280.966	280.966	280.966	280.966	280.966
5	277.226	271.492	275.730	270.993	283.209	247.808	239.082	230.606	227.864
10	316.367	305.397	299.663	281.464	282.461	242.822	227.864	217.393	214.900
15	364.981	349.275	326.090	291.686	280.966	236.340	214.900	204.928	200.191
20	425.312	400.382	358.499	301.658	277.974	225.620	200.939	188.972	184.734
25	497.361	465.700	392.654	312.128	272.489	214.900	185.981	171.521	166.286
30	568.164	527.527	431.046	319.109	264.761	201.936	167.283	151.078	144.347
35	638.467	587.859	467.445	323.846	254.041	183.986	147.089	130.137	122.159
40	697.054	640.212	497.112	323.347	240.329	164.042	125.649	108.697	99.971
45	735.696	675.863	517.306	317.862	222.878	143.350	105.705	88.254	79.777
50	753.646	690.572	520.048	304.151	202.684	122.159	84.763	68.060	60.830
55	740.433	675.863	503.594	283.957	180.496	102.215	65.318	50.359	44.127
60	692.068	632.983	466.697	255.786	156.314	81.522	46.869	32.659	27.174
65	627.997	573.648	416.836	220.385	130.386	62.077	29.667	17.451	12.465
70	564.673	512.569	358.748	183.238	105.206	42.382	12.714	2.244	0.000
75	496.863	439.772	298.167	147.089	80.774	24.182	0.000	0.000	0.000
80	422.819	367.723	243.570	113.184	58.088	6.981	0.000	0.000	0.000
85	358.499	312.876	197.698	83.018	35.900	3.241	0.000	0.000	0.000
90	312.876	266.007	160.053	60.581	30.415	4.487	0.000	0.000	0.748
95	306.644	261.021	155.566	68.060	47.368	16.953	6.981	8.726	9.474
100	303.154	257.531	165.538	90.996	64.570	29.916	21.191	18.698	13.961
105	305.397	271.741	195.704	117.671	81.273	42.880	34.653	33.407	18.947
110	335.563	302.655	234.096	150.330	102.464	51.357	48.614	49.362	49.861
115	382.931	349.773	285.204	191.964	127.145	58.586	61.079	66.564	68.559
120	423.318	396.643	348.527	244.816	154.319	63.323	65.318	82.769	85.761
125	483.151	458.719	408.360	298.167	181.493	72.547	67.312	90.248	97.976
130	552.956	528.524	475.672	342.045	208.169	84.763	73.295	86.508	105.705
135	618.024	590.601	530.269	381.186	233.598	93.489	80.027	75.040	108.447
140	661.154	633.731	564.424	406.116	252.545	96.481	84.763	73.295	106.453
145	675.614	646.694	551.959	412.099	266.257	108.697	88.503	75.788	94.735
150	653.176	626.501	553.953	406.864	276.229	122.159	88.503	82.520	68.808
155	600.324	580.130	515.810	389.413	279.470	143.100	88.254	86.758	56.592
160	531.516	510.076	462.957	367.474	281.215	164.291	101.467	89.251	64.320
165	452.487	434.786	408.858	339.801	281.963	192.712	132.380	97.229	83.018
170	364.732	357.502	346.532	309.885	282.960	214.152	176.507	132.630	117.173
175	285.702	282.960	290.439	283.957	284.456	239.332	222.130	200.191	178.751
180	276.478	276.478	276.478	276.478	276.478	276.478	276.478	276.478	276.478

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	102.96	N.A.	3.80
0-30	238.75	N.A.	8.90
0-40	432.53	N.A.	16.10
0-60	921.28	N.A.	34.30
0-80	1304.71	N.A.	48.60
0-90	1417.29	N.A.	52.80
10-90	1392.08	N.A.	51.80
20-40	329.57	N.A.	12.30
20-50	567.98	N.A.	21.10
40-70	707.82	N.A.	26.40
60-80	383.42	N.A.	14.30
70-80	164.35	N.A.	6.10
80-90	112.59	N.A.	4.20
90-110	225.99	N.A.	8.40
90-120	395.49	N.A.	14.70
90-130	604.57	N.A.	22.50
90-150	1027.62	N.A.	38.30
90-180	1268.6	N.A.	47.20
110-180	1042.6	N.A.	38.80
0-180	2685.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.21
10-20	77.75
20-30	135.78
30-40	193.78
40-50	238.41
50-60	250.34
60-70	219.07
70-80	164.35
80-90	112.59
90-100	99.91
100-110	126.08
110-120	169.50
120-130	209.08
130-140	225.13
140-150	197.92
150-160	139.41
160-170	76.90
170-180	24.67

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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

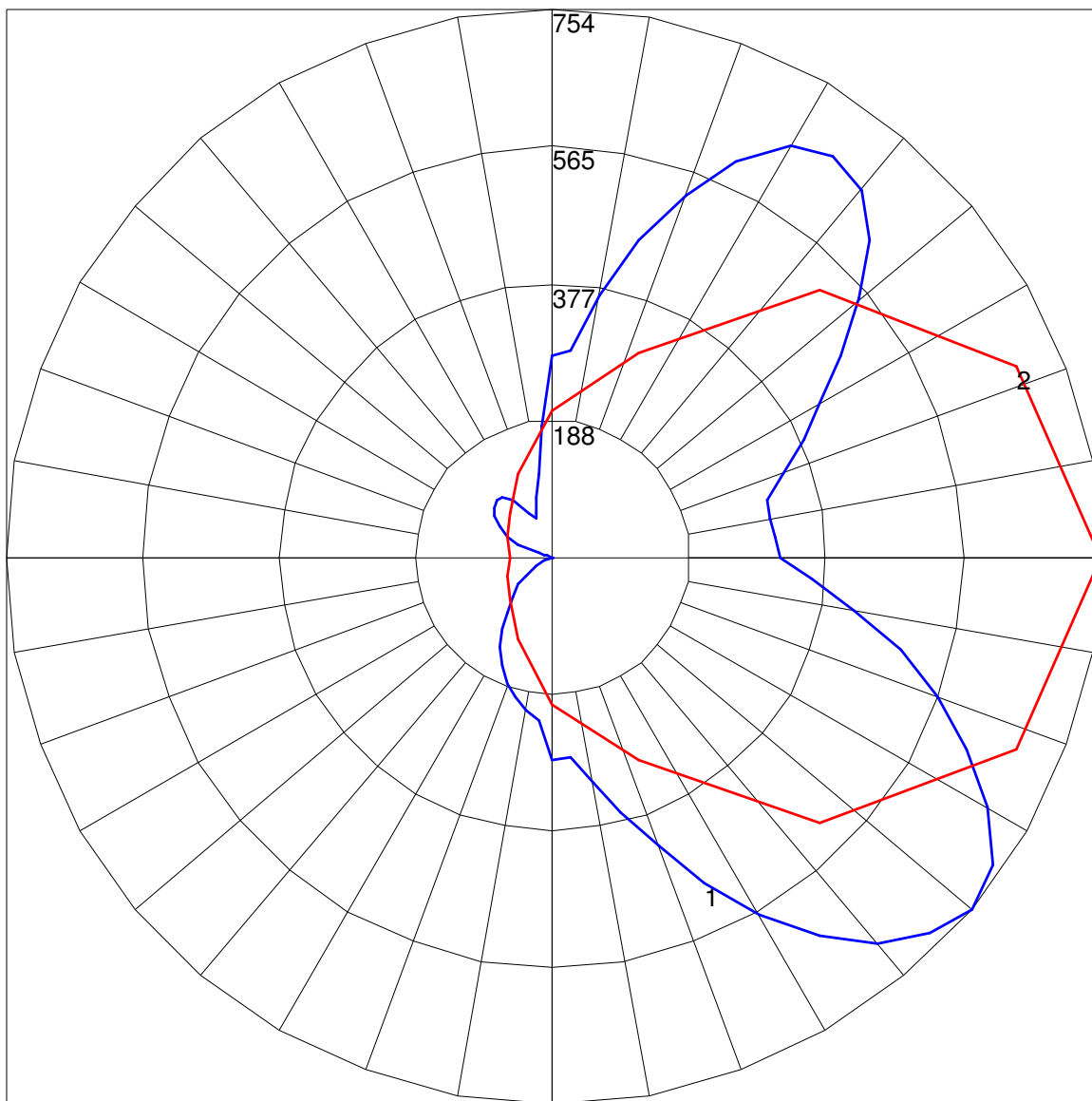
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.4	19.4	19.3	20.3	21.5	8.9	9.9	9.9	10.9	12.1
	3H	20.9	21.8	21.9	22.8	24.0	10.4	11.3	11.3	12.2	13.5
	4H	22.1	23.0	23.0	23.9	25.2	10.9	11.7	11.8	12.7	13.9
	6H	23.2	24.0	24.2	25.0	26.3	11.3	12.0	12.2	13.0	14.3
	8H	23.8	24.5	24.7	25.5	26.8	11.4	12.1	12.3	13.1	14.4
	12H	24.3	25.0	25.3	26.0	27.3	11.5	12.2	12.4	13.2	14.4
4H	2H	18.5	19.4	19.5	20.4	21.6	11.1	12.0	12.1	12.9	14.2
	3H	21.3	22.1	22.3	23.1	24.3	12.6	13.3	13.6	14.3	15.6
	4H	22.7	23.4	23.7	24.4	25.6	13.1	13.8	14.1	14.8	16.0
	6H	24.0	24.6	25.0	25.6	26.9	13.5	14.1	14.4	15.1	16.3
	8H	24.7	25.2	25.7	26.2	27.5	13.6	14.1	14.6	15.1	16.4
	12H	25.3	25.8	26.3	26.8	28.2	13.7	14.2	14.7	15.2	16.5
8H	4H	22.8	23.3	23.8	24.3	25.6	14.5	15.0	15.4	16.0	17.3
	6H	24.3	24.7	25.3	25.8	27.1	15.0	15.4	16.0	16.5	17.8
	8H	25.0	25.5	26.1	26.5	27.8	15.2	15.6	16.2	16.6	17.9
	12H	25.9	26.3	26.9	27.3	28.6	15.3	15.7	16.3	16.7	18.0
12H	4H	22.7	23.2	23.7	24.3	25.6	14.8	15.3	15.8	16.3	17.6
	6H	24.3	24.7	25.3	25.7	27.0	15.5	15.9	16.5	16.9	18.3
	8H	25.1	25.5	26.1	26.5	27.8	15.8	16.1	16.8	17.2	18.5

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 753.646 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.)