



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-2-L27-835-AF-CT-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 20309.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 10-27-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2' WALL MNT BED LIGHT w/CLOSED TOP
[MORE] WHITE REFL w/CLEAR BTM PRISMATIC DIFFUSER
[LUMCAT] 29-2-L27-835-AF-CT-DIM-UNV
[LAMPCAT] HLM2256-5630 REV B 10560222
[_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	2329
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	21.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.44
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.62
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	11542	9326	5725
55	11778	9215	5166
65	10844	8251	4395
75	9794	6919	3491
85	8736	5763	1927

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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	484.598	484.598	484.598	484.598	484.598	484.598	484.598	484.598	484.598
5	536.109	534.401	536.109	508.279	501.931	465.312	448.711	434.307	417.706
10	590.062	584.935	567.846	521.706	497.049	444.561	415.509	394.514	376.448
15	647.921	633.761	602.025	532.692	485.575	418.927	381.331	353.989	333.970
20	707.245	688.935	633.517	538.551	472.636	391.340	342.514	311.998	293.444
25	773.404	750.700	663.789	540.504	454.082	361.312	304.674	272.205	253.163
30	837.610	811.244	692.109	536.598	431.134	326.158	265.858	232.900	214.590
35	896.201	855.187	714.569	525.124	401.838	291.247	228.017	195.060	176.994
40	934.041	882.530	725.066	505.349	369.369	254.872	191.642	158.929	142.816
45	948.689	896.934	723.601	478.251	332.261	217.520	158.929	127.924	112.300
50	945.027	885.948	703.094	443.584	292.468	179.680	125.483	98.140	84.469
55	908.408	851.037	661.592	395.735	253.895	144.525	95.943	71.286	59.812
60	838.098	784.878	600.072	350.082	213.614	111.323	67.868	46.385	36.131
65	756.071	705.047	526.588	289.294	170.403	82.760	43.455	25.145	16.601
70	668.184	619.602	450.176	234.365	130.365	51.756	20.019	1.709	0.000
75	589.574	531.471	373.031	187.492	94.967	30.028	0.000	0.000	0.000
80	502.420	448.467	299.548	138.910	59.324	2.685	0.000	0.000	0.000
85	426.739	376.937	244.130	95.943	28.563	0.000	0.000	0.000	0.000
90	366.683	312.242	199.454	61.033	17.577	0.000	0.000	0.000	0.000
95	323.228	277.332	152.581	41.746	18.066	0.000	0.000	0.000	0.000
100	285.388	235.830	134.516	46.141	18.310	0.000	0.000	0.000	0.000
105	248.768	218.496	140.375	51.756	18.798	0.000	0.000	0.000	0.000
110	243.153	213.858	141.107	56.394	20.751	0.000	0.000	0.000	0.000
115	233.144	205.557	139.154	58.835	22.948	0.000	0.000	0.000	0.000
120	197.501	175.285	122.797	57.371	25.634	0.000	0.000	0.000	0.000
125	164.544	150.628	111.323	55.418	27.587	0.000	0.000	0.000	0.000
130	144.525	130.610	102.046	52.732	29.784	0.000	0.000	0.000	0.000
135	126.215	115.962	90.572	49.558	31.981	0.000	0.000	0.000	0.000
140	111.323	101.802	81.295	45.652	33.202	0.000	0.000	0.000	0.000
145	95.943	87.399	70.798	41.258	34.422	0.000	0.000	0.000	0.000
150	81.784	75.436	61.521	37.352	36.131	0.000	0.000	0.000	0.000
155	68.845	62.986	52.488	34.422	37.108	1.953	0.000	0.000	0.000
160	57.126	52.244	44.676	30.272	37.352	4.883	0.000	0.000	0.000
165	45.652	41.746	35.887	26.854	38.084	7.812	0.000	0.000	0.000
170	36.131	32.713	28.807	22.704	38.328	11.962	3.174	0.488	0.732
175	25.634	23.192	21.728	18.310	38.817	15.624	9.521	8.300	7.568
180	18.310	18.310	18.310	18.310	18.310	18.310	18.310	18.310	18.310

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	184.62	N.A.	7.90
0-30	407.62	N.A.	17.50
0-40	700.75	N.A.	30.10
0-60	1363.81	N.A.	58.60
0-80	1840.04	N.A.	79.00
0-90	1972.67	N.A.	84.70
10-90	1926.1	N.A.	82.70
20-40	516.13	N.A.	22.20
20-50	849.73	N.A.	36.50
40-70	939.01	N.A.	40.30
60-80	476.23	N.A.	20.40
70-80	200.28	N.A.	8.60
80-90	132.63	N.A.	5.70
90-110	164.53	N.A.	7.10
90-120	230.33	N.A.	9.90
90-130	278.68	N.A.	12.00
90-150	335.13	N.A.	14.40
90-180	356.26	N.A.	15.30
110-180	191.73	N.A.	8.20
0-180	2328.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.58
10-20	138.04
20-30	223.01
30-40	293.12
40-50	333.60
50-60	329.47
60-70	275.94
70-80	200.28
80-90	132.63
90-100	90.51
100-110	74.02
110-120	65.80
120-130	48.35
130-140	34.14
140-150	22.32
150-160	13.03
160-170	6.27
170-180	1.83

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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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	103	97	92	88	99	94	89	85	86	83	79	80	77	74	74	71	69	66
2	93	83	76	69	88	80	73	67	74	68	63	68	64	60	63	60	56	53
3	84	72	64	56	80	70	61	55	64	58	52	60	54	49	55	50	46	43
4	76	63	54	47	73	61	52	46	57	49	44	52	46	41	49	43	39	36
5	70	56	47	40	67	54	45	39	50	43	37	47	40	35	43	38	33	31
6	64	50	41	34	61	48	40	33	45	38	32	42	35	30	39	33	29	27
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	31	26	37	30	25	35	28	24	32	27	23	20
9	51	37	29	23	49	36	28	23	34	27	22	32	26	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	28	22	18	16

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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	23.4	24.9	24.0	25.5	26.1	14.6	16.0	15.2	16.6	17.3
	3H	26.0	27.3	26.6	27.9	28.6	15.9	17.2	16.5	17.8	18.5
	4H	27.2	28.4	27.8	29.0	29.7	16.3	17.6	16.9	18.2	18.9
	6H	28.4	29.5	29.0	30.2	30.9	16.6	17.7	17.2	18.4	19.1
	8H	29.0	30.1	29.6	30.7	31.5	16.7	17.8	17.3	18.4	19.1
	12H	29.6	30.6	30.2	31.3	32.0	16.7	17.7	17.3	18.4	19.1

UGR Viewed Endwise

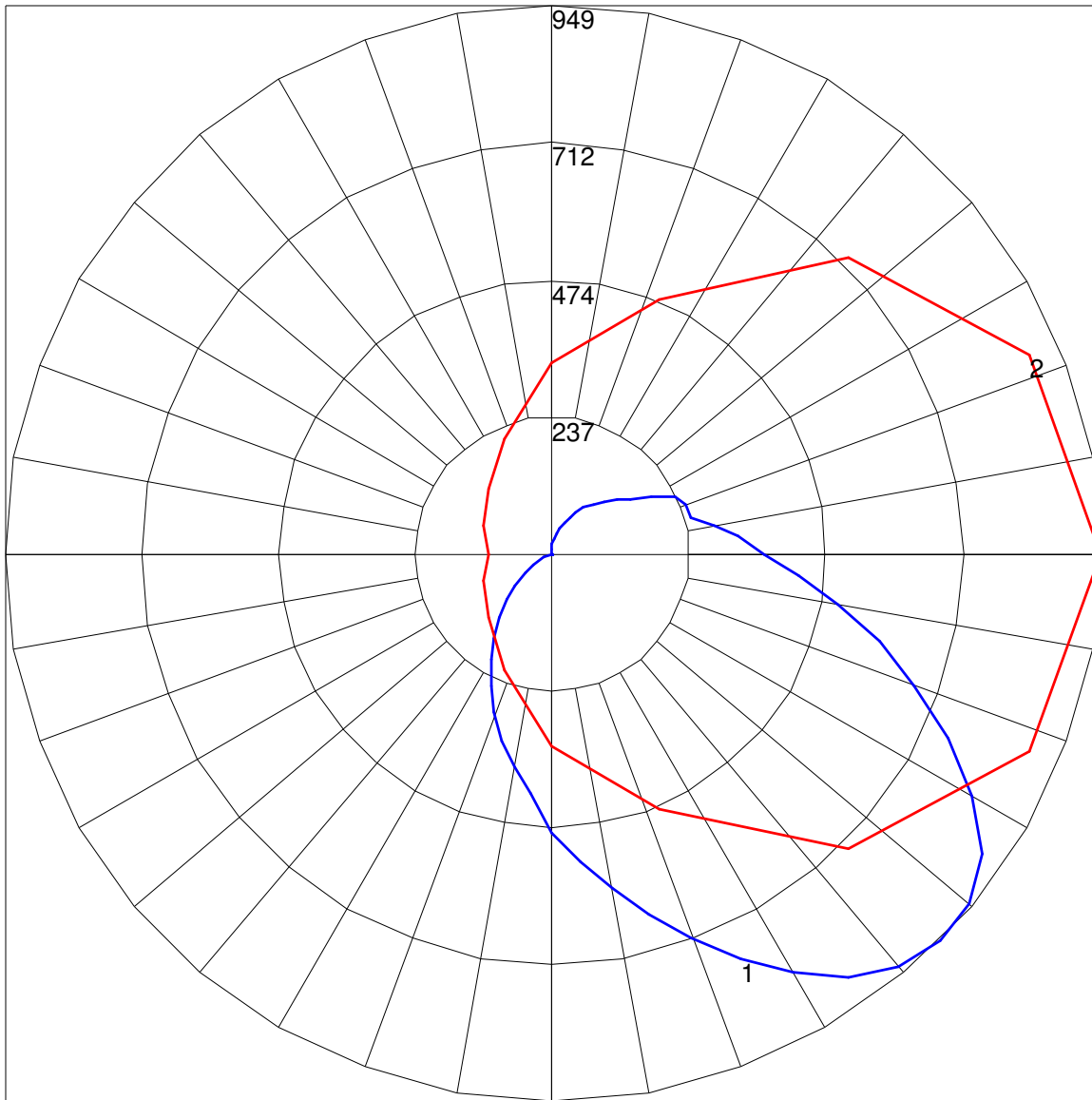
4H	2H	23.7	24.9	24.3	25.5	26.2	16.6	17.8	17.2	18.4	19.2
	3H	26.5	27.5	27.1	28.2	28.9	18.0	19.1	18.6	19.7	20.5
	4H	27.9	28.8	28.5	29.5	30.2	18.5	19.5	19.1	20.1	20.9
	6H	29.2	30.1	29.9	30.8	31.6	18.8	19.6	19.4	20.3	21.1
	8H	30.0	30.8	30.6	31.4	32.2	18.9	19.7	19.5	20.4	21.1
	12H	30.7	31.4	31.4	32.1	32.9	18.9	19.7	19.6	20.4	21.1

8H	4H	28.0	28.8	28.6	29.4	30.2	19.8	20.6	20.5	21.3	22.1
	6H	29.5	30.2	30.2	30.9	31.7	20.3	21.0	21.0	21.7	22.5
	8H	30.4	31.0	31.1	31.7	32.5	20.5	21.1	21.2	21.8	22.6
	12H	31.3	31.8	32.0	32.5	33.4	20.5	21.1	21.2	21.8	22.7

12H	4H	27.9	28.7	28.6	29.4	30.2	20.2	20.9	20.9	21.6	22.4
	6H	29.5	30.2	30.3	30.9	31.7	20.8	21.5	21.6	22.2	23.0
	8H	30.4	31.0	31.1	31.7	32.5	21.1	21.6	21.8	22.3	23.2

Maximum UGR = 33.4

POLAR GRAPH



Maximum Candela = 948.689 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)