



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-4-L54-835-AF-(L30)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 20306.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE]07-16-2020
 [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-L54-835-AF-(L30)-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	3122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	25.9
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	5257	4024	2376
55	5638	4263	2318
65	5290	4004	2189
75	4848	3430	2047
85	4311	2945	1977

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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	326.573	326.573	326.573	326.573	326.573	326.573	326.573	326.573	326.573
5	322.226	315.561	320.488	314.982	329.181	288.033	277.891	268.039	264.851
10	367.720	354.970	348.306	327.152	328.311	282.238	264.851	252.681	249.783
15	424.226	405.970	379.021	339.033	326.573	274.704	249.783	238.192	232.687
20	494.351	465.373	416.692	350.624	323.095	262.243	233.556	219.647	214.721
25	578.095	541.294	456.390	362.794	316.720	249.783	216.170	199.363	193.278
30	660.390	613.157	501.015	370.908	307.738	234.715	194.437	175.602	167.778
35	742.105	683.282	543.322	376.413	295.277	213.852	170.965	151.261	141.988
40	810.202	744.134	577.805	375.834	279.340	190.670	146.045	126.340	116.198
45	855.116	785.571	601.276	369.459	259.056	166.619	122.863	102.579	92.727
50	875.980	802.668	604.464	353.521	235.584	141.988	98.522	79.108	70.704
55	860.622	785.571	585.339	330.050	209.795	118.806	75.920	58.534	51.290
60	804.406	735.730	542.453	297.306	181.687	94.755	54.477	37.960	31.585
65	729.935	666.765	484.498	256.158	151.551	72.153	34.483	20.284	14.489
70	656.333	595.771	416.981	212.982	122.284	49.261	14.778	2.608	0.000
75	577.515	511.157	346.567	170.965	93.886	28.108	0.000	0.000	0.000
80	491.453	427.413	283.107	131.556	67.517	8.114	0.000	0.000	0.000
85	416.692	363.663	229.789	96.494	41.727	3.767	0.000	0.000	0.000
90	363.663	309.186	186.033	70.415	35.352	5.216	0.000	0.000	0.869
95	356.419	303.391	180.818	79.108	55.057	19.704	8.114	10.142	11.011
100	352.362	299.334	192.408	105.767	75.051	34.773	24.631	21.733	16.227
105	354.970	315.851	227.471	136.772	94.466	49.841	40.278	38.829	22.023
110	390.033	351.783	272.096	174.732	119.096	59.693	56.505	57.375	57.954
115	445.089	406.550	331.499	223.124	147.784	68.096	70.994	77.369	79.687
120	492.032	461.027	405.101	284.556	179.369	73.602	75.920	96.204	99.681
125	561.578	533.180	474.646	346.567	210.954	84.324	78.238	104.897	113.880
130	642.714	614.316	552.884	397.567	241.959	98.522	85.193	100.551	122.863
135	718.344	686.469	616.344	443.061	271.516	108.664	93.017	87.221	126.051
140	768.475	736.600	656.043	472.038	293.539	112.142	98.522	85.193	123.733
145	785.281	751.668	641.555	478.993	309.476	126.340	102.869	88.091	110.113
150	759.202	728.196	643.873	472.907	321.067	141.988	102.869	95.914	79.977
155	697.770	674.299	599.538	452.623	324.834	166.329	102.579	100.841	65.778
160	617.793	592.873	538.106	427.123	326.862	190.960	117.937	103.738	74.761
165	525.936	505.362	475.226	394.959	327.732	223.994	153.869	113.011	96.494
170	423.936	415.533	402.783	360.186	328.891	248.914	205.158	154.159	136.193
175	332.078	328.891	337.584	330.050	330.630	278.181	258.187	232.687	207.766
180	321.357	321.357	321.357	321.357	321.357	321.357	321.357	321.357	321.357

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	119.68	N.A.	3.80
0-30	277.50	N.A.	8.90
0-40	502.74	N.A.	16.10
0-60	1070.83	N.A.	34.30
0-80	1516.49	N.A.	48.60
0-90	1647.35	N.A.	52.80
10-90	1618.05	N.A.	51.80
20-40	383.07	N.A.	12.30
20-50	660.18	N.A.	21.10
40-70	822.72	N.A.	26.40
60-80	445.66	N.A.	14.30
70-80	191.03	N.A.	6.10
80-90	130.86	N.A.	4.20
90-110	262.68	N.A.	8.40
90-120	459.69	N.A.	14.70
90-130	702.71	N.A.	22.50
90-150	1194.43	N.A.	38.30
90-180	1474.52	N.A.	47.20
110-180	1211.84	N.A.	38.80
0-180	3121.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.30
10-20	90.38
20-30	157.83
30-40	225.24
40-50	277.11
50-60	290.97
60-70	254.63
70-80	191.03
80-90	130.86
90-100	116.13
100-110	146.55
110-120	197.01
120-130	243.02
130-140	261.67
140-150	230.05
150-160	162.04
160-170	89.39
170-180	28.67

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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

X=2H	Y=2H	19.1	20.1	20.0	21.0	22.2	9.3	10.3	10.3	11.3	12.5
	3H	21.8	22.7	22.7	23.6	24.9	10.8	11.7	11.7	12.6	13.9
	4H	23.1	23.9	24.0	24.9	26.1	11.3	12.1	12.2	13.1	14.3
	6H	24.3	25.1	25.3	26.1	27.4	11.7	12.5	12.6	13.4	14.7
	8H	25.0	25.7	26.0	26.7	28.0	11.8	12.5	12.7	13.5	14.8
	12H	25.7	26.4	26.6	27.4	28.7	11.9	12.6	12.8	13.6	14.8

UGR Viewed Endwise

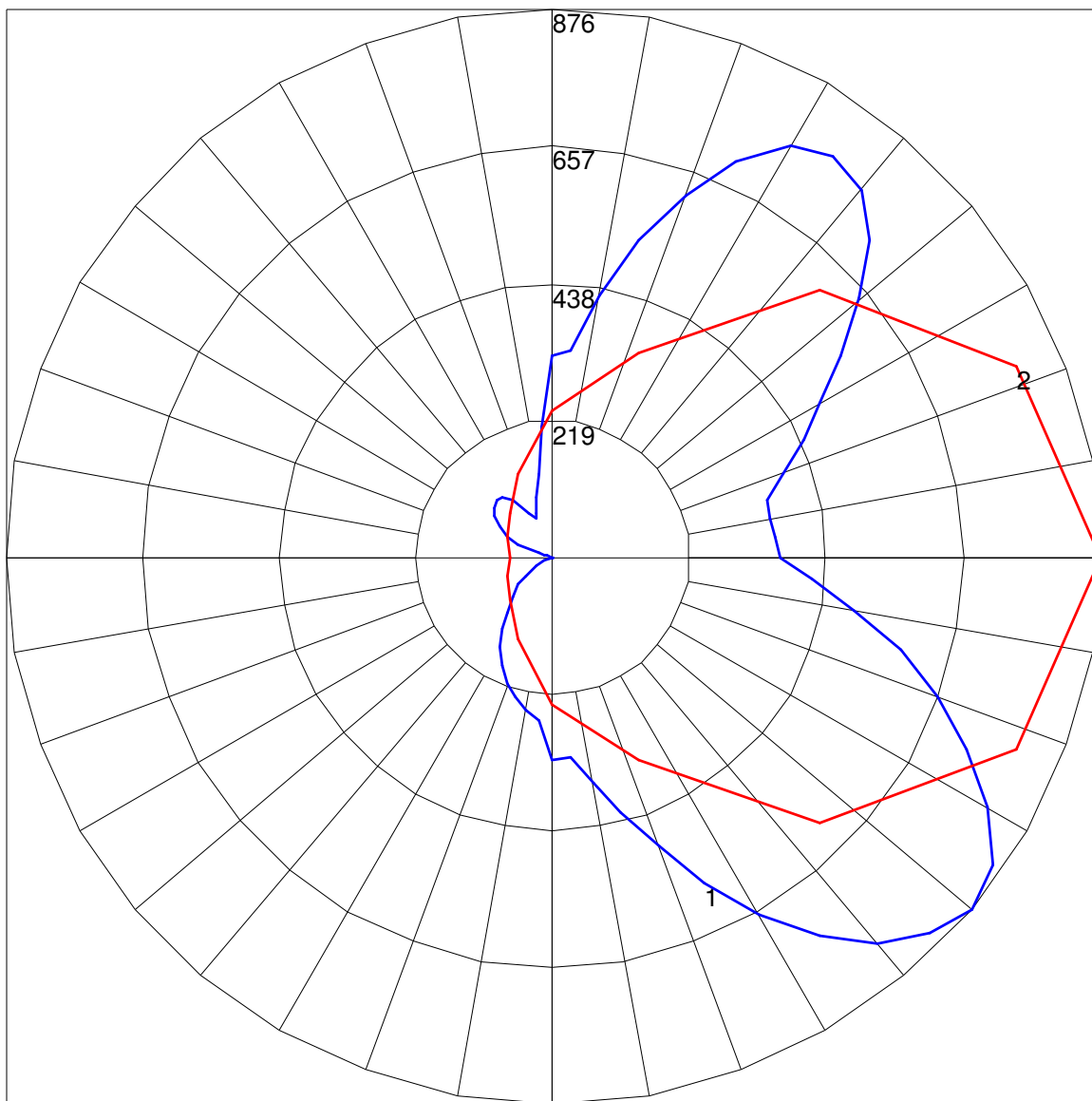
4H	2H	19.2	20.1	20.2	21.0	22.3	11.6	12.5	12.6	13.4	14.7
	3H	22.2	22.9	23.1	23.9	25.1	13.1	13.8	14.1	14.8	16.1
	4H	23.7	24.3	24.6	25.3	26.6	13.6	14.3	14.6	15.3	16.5
	6H	25.1	25.7	26.1	26.7	28.0	14.0	14.6	14.9	15.6	16.8
	8H	25.9	26.4	26.9	27.4	28.7	14.1	14.6	15.1	15.6	16.9
	12H	26.7	27.2	27.7	28.2	29.5	14.2	14.7	15.2	15.7	17.0

8H	4H	23.7	24.3	24.7	25.3	26.6	15.1	15.6	16.0	16.6	17.9
	6H	25.4	25.8	26.4	26.9	28.2	15.6	16.1	16.6	17.1	18.4
	8H	26.2	26.7	27.3	27.7	29.0	15.8	16.2	16.8	17.2	18.5
	12H	27.2	27.6	28.3	28.6	30.0	15.9	16.3	16.9	17.3	18.6

12H	4H	23.7	24.2	24.7	25.2	26.5	15.5	16.0	16.5	17.0	18.3
	6H	25.3	25.8	26.4	26.8	28.1	16.2	16.6	17.2	17.6	18.9
	8H	26.3	26.7	27.3	27.7	29.0	16.4	16.8	17.5	17.8	19.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 875.98 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.)