



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 29-4-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] 05-13-2022
[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-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	5414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	42.2
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	9117	6978	4121
55	9778	7393	4020
65	9174	6943	3796
75	8406	5948	3550
85	7475	5108	3429

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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	566.324	566.324	566.324	566.324	566.324	566.324	566.324	566.324	566.324
5	558.787	547.229	555.772	546.224	570.847	499.491	481.903	464.818	459.291
10	637.680	615.570	604.012	567.329	569.339	489.441	459.291	438.185	433.160
15	735.669	704.011	657.278	587.932	566.324	476.376	433.160	413.060	403.512
20	857.275	807.025	722.604	608.032	560.294	454.768	405.020	380.900	372.357
25	1002.500	938.681	791.447	629.138	549.239	433.160	374.869	345.724	335.172
30	1145.211	1063.303	868.833	643.208	533.661	407.030	337.182	304.519	290.951
35	1286.918	1184.909	942.199	652.755	512.054	370.849	296.479	262.308	246.228
40	1405.007	1290.435	1001.997	651.750	484.416	330.649	253.263	219.093	201.505
45	1482.895	1362.294	1042.700	640.695	449.240	288.941	213.063	177.887	160.802
50	1519.076	1391.942	1048.228	613.057	408.537	246.228	170.852	137.184	122.611
55	1492.443	1362.294	1015.062	572.354	363.814	206.027	131.657	101.506	88.944
60	1394.957	1275.863	940.691	515.571	315.071	164.319	94.471	65.828	54.773
65	1265.813	1156.266	840.190	444.215	262.811	125.124	59.798	35.175	25.125
70	1138.176	1033.152	723.106	369.342	212.058	85.426	25.628	4.523	0.000
75	1001.494	886.421	600.997	296.479	162.812	48.743	0.000	0.000	0.000
80	852.250	741.196	490.948	228.138	117.084	14.070	0.000	0.000	0.000
85	722.604	630.645	398.487	167.335	72.361	6.533	0.000	0.000	0.000
90	630.645	536.174	322.609	122.109	61.306	9.045	0.000	0.000	1.508
95	618.082	526.124	313.564	137.184	95.476	34.170	14.070	17.588	19.095
100	611.047	519.089	333.664	183.415	130.149	60.301	42.713	37.688	28.140
105	615.570	547.732	394.467	237.183	163.817	86.431	69.848	67.336	38.190
110	676.373	610.042	471.853	303.011	206.530	103.516	97.989	99.496	100.501
115	771.849	705.016	574.867	386.930	256.278	118.089	123.114	134.169	138.189
120	853.255	799.487	702.503	493.461	311.051	127.637	131.657	166.832	172.862
125	973.857	924.611	823.105	600.997	365.824	146.229	135.677	181.907	197.485
130	1114.558	1065.313	958.781	689.438	419.593	170.852	147.737	174.370	213.063
135	1245.712	1190.437	1068.830	768.332	470.848	188.440	161.304	151.254	218.590
140	1332.646	1277.370	1137.674	818.582	509.039	194.470	170.852	147.737	214.570
145	1361.791	1303.501	1112.548	830.642	536.676	219.093	178.390	152.762	190.952
150	1316.566	1262.798	1116.568	820.090	556.777	246.228	178.390	166.329	138.692
155	1210.034	1169.332	1039.685	784.914	563.309	288.438	177.887	174.872	114.069
160	1071.343	1028.127	933.154	740.694	566.827	331.151	204.520	179.897	129.647
165	912.048	876.370	824.110	684.916	568.334	388.437	266.831	195.977	167.335
170	735.166	720.594	698.483	624.615	570.344	431.653	355.774	267.333	236.178
175	575.872	570.344	585.420	572.354	573.359	482.406	447.733	403.512	360.297
180	557.279	557.279	557.279	557.279	557.279	557.279	557.279	557.279	557.279

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	207.54	N.A.	3.80
0-30	481.23	N.A.	8.90
0-40	871.83	N.A.	16.10
0-60	1856.97	N.A.	34.30
0-80	2629.81	N.A.	48.60
0-90	2856.75	N.A.	52.80
10-90	2805.93	N.A.	51.80
20-40	664.29	N.A.	12.30
20-50	1144.85	N.A.	21.10
40-70	1426.71	N.A.	26.40
60-80	772.84	N.A.	14.30
70-80	331.28	N.A.	6.10
80-90	226.93	N.A.	4.20
90-110	455.52	N.A.	8.40
90-120	797.17	N.A.	14.70
90-130	1218.6	N.A.	22.50
90-150	2071.31	N.A.	38.30
90-180	2557.03	N.A.	47.20
110-180	2101.51	N.A.	38.80
0-180	5413.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.81
10-20	156.72
20-30	273.69
30-40	390.60
40-50	480.55
50-60	504.59
60-70	441.57
70-80	331.28
80-90	226.93
90-100	201.39
100-110	254.14
110-120	341.64
120-130	421.43
130-140	453.78
140-150	398.93
150-160	281.00
160-170	155.01
170-180	49.72

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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

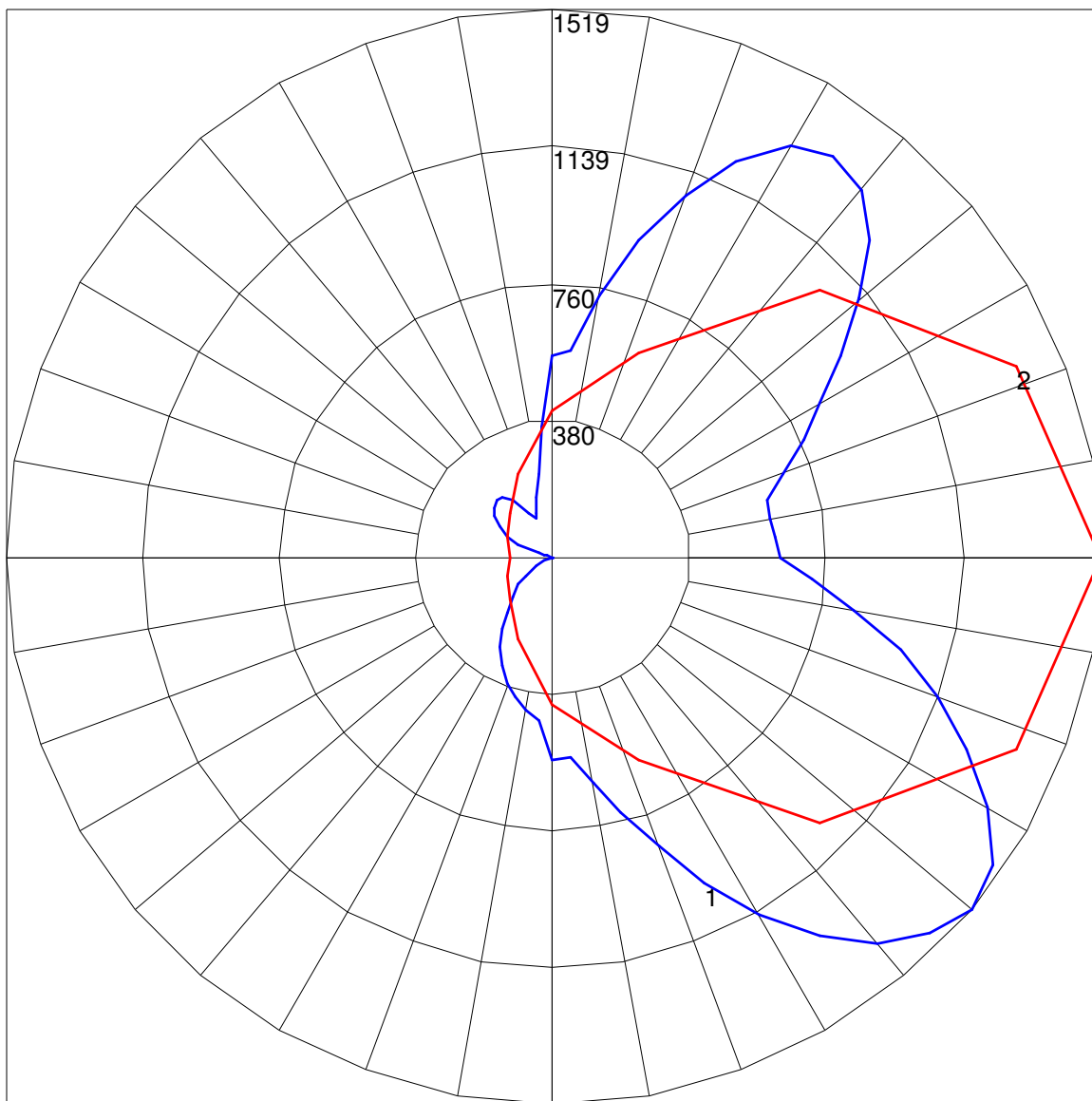
Reflectances

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	21.0	22.0	21.9	22.9	24.1	11.2	12.2	12.2	13.2	14.4
	3H	23.7	24.6	24.6	25.5	26.8	12.7	13.6	13.6	14.5	15.8
	4H	25.0	25.8	25.9	26.8	28.0	13.2	14.0	14.1	15.0	16.2
	6H	26.2	27.0	27.2	28.0	29.3	13.6	14.4	14.5	15.3	16.6
	8H	26.9	27.6	27.8	28.6	29.9	13.7	14.4	14.6	15.4	16.7
	12H	27.6	28.3	28.5	29.3	30.6	13.8	14.5	14.7	15.5	16.7
4H	2H	21.1	22.0	22.1	22.9	24.2	13.5	14.4	14.5	15.3	16.6
	3H	24.1	24.8	25.0	25.8	27.0	15.0	15.7	16.0	16.7	18.0
	4H	25.6	26.2	26.5	27.2	28.5	15.5	16.2	16.5	17.2	18.4
	6H	27.0	27.6	28.0	28.6	29.9	15.9	16.5	16.8	17.5	18.7
	8H	27.8	28.3	28.8	29.3	30.6	16.0	16.5	17.0	17.5	18.8
	12H	28.6	29.1	29.6	30.1	31.4	16.1	16.6	17.1	17.6	18.9
8H	4H	25.6	26.2	26.6	27.2	28.5	17.0	17.5	17.9	18.5	19.8
	6H	27.3	27.7	28.3	28.7	30.1	17.5	18.0	18.5	19.0	20.3
	8H	28.1	28.6	29.2	29.6	30.9	17.7	18.1	18.7	19.1	20.4
	12H	29.1	29.5	30.2	30.5	31.9	17.8	18.2	18.8	19.2	20.5
12H	4H	25.6	26.1	26.6	27.1	28.4	17.4	17.9	18.4	18.9	20.2
	6H	27.2	27.7	28.3	28.7	30.0	18.1	18.5	19.1	19.5	20.8
	8H	28.2	28.6	29.2	29.6	30.9	18.3	18.7	19.4	19.7	21.1

Maximum UGR = 31.9

POLAR GRAPH



Maximum Candela = 1519.076 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.)