



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-4-L54-840-AF-(L32)-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] 11-03-2022
 [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-L54-840-AF-(L32)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K 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	3270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	24.4
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	5506	4215	2489
55	5906	4465	2428
65	5541	4193	2293
75	5077	3592	2144
85	4515	3085	2071

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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	342.054	342.054	342.054	342.054	342.054	342.054	342.054	342.054	342.054
5	337.501	330.521	335.680	329.914	344.786	301.687	291.065	280.745	277.407
10	385.152	371.798	364.817	342.661	343.875	295.617	277.407	264.659	261.624
15	444.336	425.215	396.989	355.105	342.054	287.726	261.624	249.484	243.717
20	517.785	487.435	436.445	367.245	338.412	274.675	244.628	230.059	224.900
25	605.499	566.954	478.026	379.993	331.735	261.624	226.417	208.814	202.440
30	691.696	642.224	524.766	388.491	322.326	245.842	203.654	183.926	175.731
35	777.285	715.673	569.078	394.258	309.275	223.989	179.070	158.431	148.719
40	848.610	779.410	605.196	393.651	292.582	199.709	152.968	132.330	121.707
45	895.654	822.812	629.780	386.973	271.337	174.517	128.688	107.442	97.123
50	917.506	840.719	633.119	370.280	246.752	148.719	103.193	82.858	74.056
55	901.420	822.812	613.087	345.696	219.740	124.438	79.519	61.309	53.721
60	842.540	770.608	568.168	311.400	190.300	99.247	57.060	39.760	33.082
65	764.538	698.373	507.466	268.302	158.735	75.574	36.118	21.246	15.175
70	687.447	624.013	436.749	223.079	128.081	51.596	15.479	2.732	0.000
75	604.892	535.389	362.996	179.070	98.337	29.440	0.000	0.000	0.000
80	514.750	447.675	296.528	137.793	70.717	8.498	0.000	0.000	0.000
85	436.445	380.903	240.682	101.068	43.705	3.946	0.000	0.000	0.000
90	380.903	323.844	194.852	73.753	37.028	5.463	0.000	0.000	0.911
95	373.315	317.773	189.389	82.858	57.667	20.639	8.498	10.623	11.533
100	369.066	313.524	201.530	110.781	78.609	36.421	25.798	22.763	16.996
105	371.798	330.824	238.254	143.256	98.944	52.203	42.188	40.670	23.067
110	408.522	368.459	284.994	183.016	124.742	62.523	59.184	60.095	60.702
115	466.189	425.822	347.214	233.702	154.789	71.324	74.360	81.037	83.465
120	515.357	482.882	424.305	298.045	187.872	77.091	79.519	100.765	104.407
125	588.199	558.456	497.147	362.996	220.954	88.321	81.947	109.870	119.279
130	673.182	643.438	579.094	416.414	253.430	103.193	89.231	105.317	128.688
135	752.398	719.012	645.563	464.064	284.387	113.816	97.426	91.356	132.026
140	804.905	771.519	687.143	494.415	307.454	117.458	103.193	89.231	129.598
145	822.508	787.301	671.968	501.700	324.147	132.330	107.746	92.267	115.333
150	795.192	762.717	674.396	495.326	336.287	148.719	107.746	100.461	83.768
155	730.848	706.264	627.959	474.080	340.233	174.214	107.442	105.621	68.896
160	647.080	620.978	563.615	447.372	342.358	200.012	123.528	108.656	78.305
165	550.868	529.319	497.754	413.682	343.268	234.612	161.163	118.368	101.068
170	444.033	435.231	421.877	377.261	344.482	260.714	214.884	161.467	142.649
175	347.821	344.482	353.587	345.696	346.303	291.368	270.426	243.717	217.616
180	336.591	336.591	336.591	336.591	336.591	336.591	336.591	336.591	336.591

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	125.35	N.A.	3.80
0-30	290.66	N.A.	8.90
0-40	526.58	N.A.	16.10
0-60	1121.59	N.A.	34.30
0-80	1588.38	N.A.	48.60
0-90	1725.45	N.A.	52.80
10-90	1694.76	N.A.	51.80
20-40	401.23	N.A.	12.30
20-50	691.48	N.A.	21.10
40-70	861.72	N.A.	26.40
60-80	466.79	N.A.	14.30
70-80	200.09	N.A.	6.10
80-90	137.06	N.A.	4.20
90-110	275.13	N.A.	8.40
90-120	481.48	N.A.	14.70
90-130	736.02	N.A.	22.50
90-150	1251.05	N.A.	38.30
90-180	1544.42	N.A.	47.20
110-180	1269.29	N.A.	38.80
0-180	3269.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.69
10-20	94.66
20-30	165.31
30-40	235.92
40-50	290.25
50-60	304.77
60-70	266.70
70-80	200.09
80-90	137.06
90-100	121.63
100-110	153.50
110-120	206.35
120-130	254.54
130-140	274.08
140-150	240.95
150-160	169.72
160-170	93.62
170-180	30.03

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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

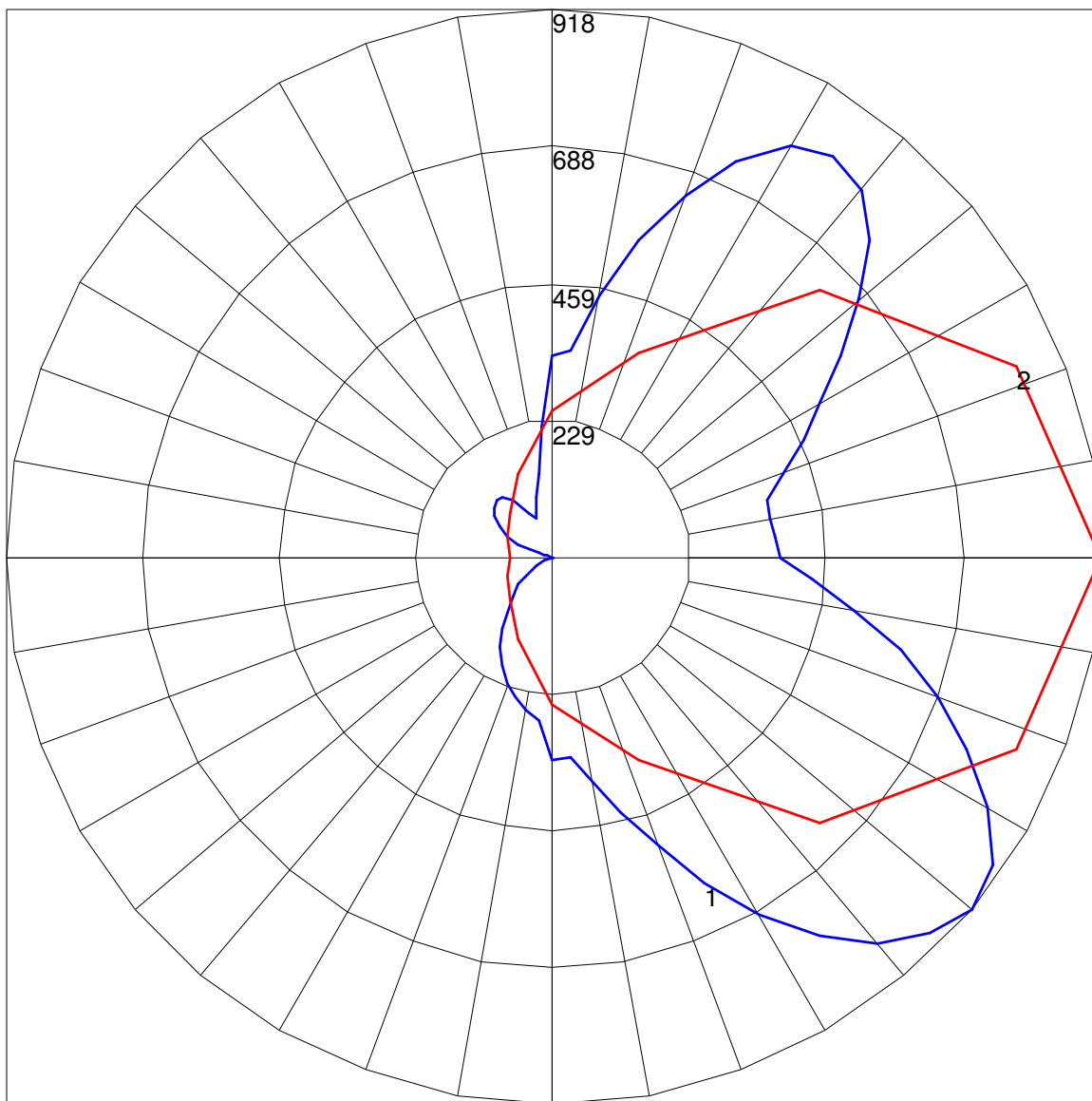
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UGR TABLE - CORRECTED

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	19.2	20.1	20.1	21.1	22.3	9.4	10.4	10.4	11.4	12.6
	3H	21.9	22.8	22.8	23.7	25.0	10.9	11.8	11.8	12.7	14.0
	4H	23.2	24.0	24.1	25.0	26.2	11.4	12.2	12.3	13.2	14.4
	6H	24.4	25.2	25.4	26.2	27.5	11.8	12.6	12.7	13.5	14.8
	8H	25.1	25.8	26.0	26.8	28.1	11.9	12.6	12.8	13.6	14.9
	12H	25.8	26.5	26.7	27.5	28.8	12.0	12.7	12.9	13.7	14.9
4H	2H	19.3	20.2	20.3	21.1	22.4	11.7	12.6	12.7	13.5	14.8
	3H	22.3	23.0	23.2	24.0	25.2	13.2	13.9	14.2	14.9	16.2
	4H	23.8	24.4	24.7	25.4	26.7	13.7	14.4	14.7	15.4	16.6
	6H	25.2	25.8	26.2	26.8	28.1	14.1	14.7	15.0	15.7	16.9
	8H	26.0	26.5	27.0	27.5	28.8	14.2	14.7	15.2	15.7	17.0
	12H	26.8	27.3	27.8	28.3	29.6	14.3	14.8	15.3	15.8	17.1
8H	4H	23.8	24.4	24.8	25.4	26.7	15.2	15.7	16.1	16.7	18.0
	6H	25.5	25.9	26.5	26.9	28.2	15.7	16.2	16.7	17.2	18.5
	8H	26.3	26.8	27.3	27.8	29.1	15.9	16.3	16.9	17.3	18.6
	12H	27.3	27.7	28.4	28.7	30.1	16.0	16.4	17.0	17.4	18.7
12H	4H	23.8	24.3	24.8	25.3	26.6	15.6	16.1	16.6	17.1	18.4
	6H	25.4	25.9	26.4	26.9	28.2	16.3	16.7	17.3	17.7	19.0
	8H	26.4	26.7	27.4	27.8	29.1	16.5	16.9	17.6	17.9	19.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 917.506 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.)