



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 29-2-L54-835-AF-(L30)-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] 20-APR-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2' LED WALL MNT LUMINAIRE
 [MORE] WHITE REFL W/CLEAR PRISMATIC DIFFUSER TOP/BTM
 [LUMCAT] 29-2-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	2933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	24.1
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)	0.40 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.23 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10288	7642	4390
55	11034	8034	4190
65	10353	7474	3826
75	9487	6322	3360
85	8436	5325	2704

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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	306.802	306.802	306.802	306.802	306.802	306.802	306.802	306.802	306.802
5	302.719	296.457	301.085	295.913	309.252	270.596	261.068	251.812	248.817
10	345.459	333.481	327.219	307.347	308.435	265.151	248.817	237.384	234.661
15	398.543	381.393	356.076	318.508	306.802	258.073	234.661	223.772	218.600
20	464.423	437.200	391.465	329.397	303.535	246.367	219.417	206.350	201.722
25	543.097	508.524	428.761	340.831	297.546	234.661	203.083	187.294	181.577
30	620.410	576.037	470.684	348.453	289.107	220.505	182.666	164.971	157.621
35	697.178	641.916	510.429	353.625	277.401	200.905	160.615	142.104	133.392
40	761.152	699.084	542.825	353.081	262.429	179.127	137.203	118.692	109.164
45	803.348	738.013	564.875	347.092	243.373	156.532	115.425	96.369	87.113
50	822.948	754.074	567.870	332.119	221.322	133.392	92.558	74.319	66.424
55	808.520	738.013	549.903	310.069	197.094	111.614	71.324	54.990	48.185
60	755.708	691.189	509.613	279.307	170.688	89.019	51.179	35.662	29.673
65	685.745	626.399	455.167	240.650	142.376	67.785	32.395	19.056	13.611
70	616.599	559.703	391.738	200.088	114.881	46.279	13.884	2.450	0.000
75	542.552	480.212	325.586	160.615	88.202	26.406	0.000	0.000	0.000
80	461.700	401.538	265.968	123.592	63.429	7.622	0.000	0.000	0.000
85	391.465	341.647	215.878	90.652	39.201	3.539	0.000	0.000	0.000
90	341.647	290.468	174.771	66.152	33.212	4.900	0.000	0.000	0.817
95	334.842	285.024	169.871	74.319	51.724	18.512	7.622	9.528	10.345
100	331.030	281.213	180.760	99.364	70.507	32.667	23.139	20.417	15.245
105	333.481	296.730	213.700	128.492	88.747	46.823	37.840	36.479	20.689
110	366.420	330.486	255.623	164.154	111.886	56.079	53.085	53.901	54.446
115	418.144	381.937	311.430	209.616	138.837	63.974	66.696	72.685	74.863
120	462.245	433.116	380.576	267.329	168.510	69.146	71.324	90.380	93.647
125	527.580	500.901	445.911	325.586	198.183	79.219	73.502	98.547	106.986
130	603.804	577.125	519.413	373.498	227.311	92.558	80.035	94.463	115.425
135	674.856	644.910	579.031	416.238	255.079	102.086	87.386	81.941	118.420
140	721.951	692.006	616.326	443.461	275.768	105.353	92.558	80.035	116.242
145	737.741	706.162	602.715	449.995	290.741	118.692	96.641	82.758	103.447
150	713.240	684.111	604.893	444.278	301.630	133.392	96.641	90.108	75.135
155	655.527	633.477	563.242	425.222	305.169	156.259	96.369	94.736	61.796
160	580.392	556.981	505.529	401.266	307.074	179.399	110.797	97.458	70.235
165	494.096	474.767	446.456	371.048	307.891	210.433	144.554	106.169	90.652
170	398.271	390.376	378.398	338.381	308.980	233.845	192.738	144.826	127.948
175	311.974	308.980	317.147	310.069	310.613	261.340	242.556	218.600	195.188
180	301.902	301.902	301.902	301.902	301.902	301.902	301.902	301.902	301.902

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	112.43	N.A.	3.80
0-30	260.70	N.A.	8.90
0-40	472.31	N.A.	16.10
0-60	1006.00	N.A.	34.30
0-80	1424.68	N.A.	48.60
0-90	1547.62	N.A.	52.80
10-90	1520.09	N.A.	51.80
20-40	359.88	N.A.	12.30
20-50	620.21	N.A.	21.10
40-70	772.91	N.A.	26.40
60-80	418.68	N.A.	14.30
70-80	179.47	N.A.	6.10
80-90	122.94	N.A.	4.20
90-110	246.78	N.A.	8.40
90-120	431.86	N.A.	14.70
90-130	660.17	N.A.	22.50
90-150	1122.12	N.A.	38.30
90-180	1385.26	N.A.	47.20
110-180	1138.48	N.A.	38.80
0-180	2932.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.53
10-20	84.90
20-30	148.27
30-40	211.60
40-50	260.34
50-60	273.36
60-70	239.22
70-80	179.47
80-90	122.94
90-100	109.10
100-110	137.68
110-120	185.08
120-130	228.31
130-140	245.83
140-150	216.12
150-160	152.23
160-170	83.98
170-180	26.93

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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

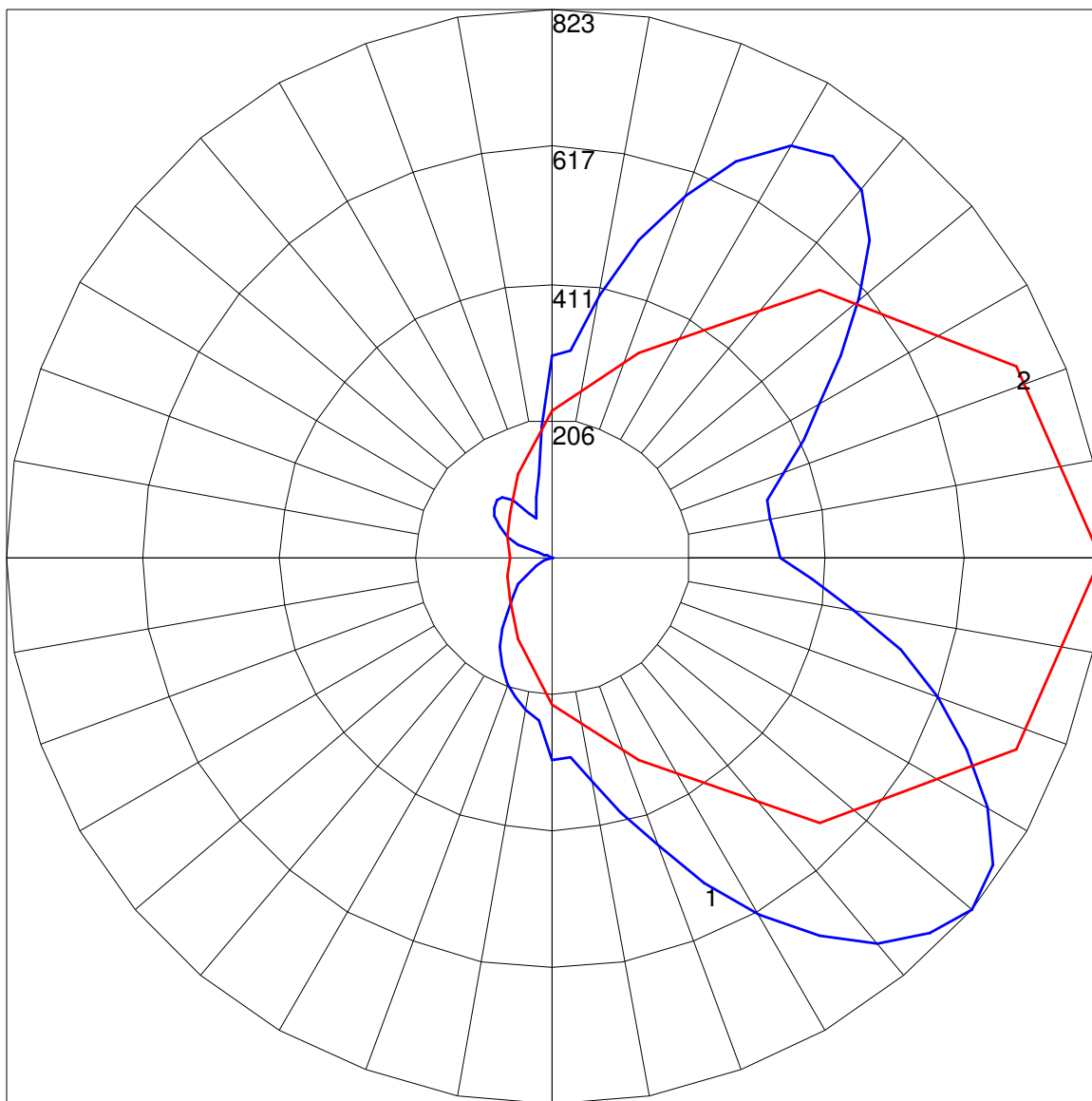
Reflectances

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	21.1	22.1	22.0	23.0	24.2	11.5	12.5	12.4	13.5	14.7
	3H	23.7	24.6	24.7	25.6	26.8	13.0	13.9	13.9	14.8	16.1
	4H	25.0	25.8	25.9	26.8	28.0	13.5	14.3	14.4	15.3	16.5
	6H	26.2	26.9	27.1	27.9	29.2	13.9	14.7	14.8	15.6	16.9
	8H	26.7	27.5	27.7	28.5	29.7	14.0	14.7	14.9	15.7	17.0
	12H	27.3	28.1	28.3	29.0	30.3	14.1	14.8	15.0	15.8	17.1
4H	2H	21.3	22.1	22.2	23.1	24.3	13.8	14.6	14.7	15.6	16.8
	3H	24.1	24.9	25.1	25.8	27.1	15.3	16.0	16.2	17.0	18.2
	4H	25.6	26.2	26.5	27.2	28.5	15.8	16.4	16.7	17.4	18.7
	6H	27.0	27.5	27.9	28.5	29.8	16.1	16.7	17.1	17.7	19.0
	8H	27.7	28.2	28.6	29.2	30.5	16.3	16.8	17.2	17.8	19.1
	12H	28.4	28.9	29.4	29.9	31.2	16.3	16.8	17.3	17.8	19.2
8H	4H	25.6	26.2	26.6	27.2	28.5	17.2	17.7	18.1	18.7	20.0
	6H	27.2	27.6	28.2	28.7	30.0	17.7	18.2	18.7	19.2	20.5
	8H	28.0	28.4	29.0	29.5	30.8	17.9	18.3	18.9	19.3	20.6
	12H	28.9	29.3	29.9	30.3	31.7	18.0	18.4	19.0	19.4	20.8
12H	4H	25.6	26.1	26.6	27.1	28.4	17.6	18.0	18.5	19.1	20.4
	6H	27.2	27.6	28.2	28.6	30.0	18.2	18.7	19.3	19.7	21.0
	8H	28.1	28.4	29.1	29.5	30.8	18.5	18.9	19.5	19.9	21.3

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 822.948 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.)