

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CL-4-L54-840-FAF12125-EM10W-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18716.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 6-12-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836

[LUMINAIRE] 4' CORNER MOUNT LUMINAIRE

[MORE] WITH ACRYLIC LENS

[LUMCAT] CL-4-L54/840-FAF12125-EM10W-DIM-UNV

[LAMPCAT] HLM 80 CRI, 4000K CCT

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, COMMERCIAL, EDUCATIONAL, OFFICE

[_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1276
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.72
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.66
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.48 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.48 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2587	2131	979
55	2507	2021	825
65	2444	1886	701
75	2187	1623	589
85	1983	1389	408

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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	248.730	248.730	248.730	248.730	248.730	248.730	248.730	248.730	248.730
5	308.381	301.130	287.175	263.916	243.257	232.312	215.757	203.581	199.339
10	365.706	352.299	321.242	278.008	235.322	203.581	174.986	157.337	150.633
15	430.420	412.634	366.938	302.908	238.332	190.173	153.643	134.079	126.828
20	479.673	452.858	387.734	293.879	207.275	146.939	109.726	90.161	84.141
25	526.054	499.922	421.801	310.844	206.591	135.310	95.770	76.753	71.281
30	562.036	528.516	440.681	307.834	185.932	109.726	73.743	56.094	49.390
35	580.369	547.397	449.848	304.824	173.071	96.318	61.567	42.002	34.751
40	596.787	561.489	454.773	293.195	151.728	74.427	42.002	21.343	12.861
45	614.436	575.444	454.773	276.093	131.069	59.788	26.268	6.704	4.241
50	605.954	565.046	441.365	258.444	113.420	47.612	10.398	4.925	0.000
55	586.389	544.934	416.328	232.859	93.855	34.204	4.241	0.000	0.000
60	560.805	516.887	388.281	209.737	78.669	20.112	0.000	0.000	0.000
65	545.618	499.238	362.697	185.248	63.345	6.157	0.000	0.000	0.000
70	507.720	461.477	326.714	159.663	51.853	0.000	0.000	0.000	0.000
75	449.848	405.383	280.471	132.847	37.761	0.000	0.000	0.000	0.000
80	407.846	363.244	242.573	107.947	26.268	0.000	0.000	0.000	0.000
85	360.918	317.000	205.496	87.835	14.639	0.000	0.000	0.000	0.000
90	279.787	243.804	154.875	64.577	0.000	0.000	0.000	0.000	0.000
95	237.100	201.802	124.365	45.149	0.000	0.000	0.000	0.000	0.000
100	181.690	152.412	93.308	29.826	0.000	0.000	0.000	0.000	0.000
105	137.089	115.882	68.271	15.186	0.000	0.000	0.000	0.000	0.000
110	106.032	89.614	50.622	0.000	0.000	0.000	0.000	0.000	0.000
115	79.216	67.039	34.204	0.000	0.000	0.000	0.000	0.000	0.000
120	59.104	48.706	17.649	0.000	0.000	0.000	0.000	0.000	0.000
125	39.676	29.278	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	22.574	12.861	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	3.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	95.56	N.A.	7.50
0-30	212.34	N.A.	16.60
0-40	366.85	N.A.	28.80
0-60	725.40	N.A.	56.90
0-80	1040.71	N.A.	81.60
0-90	1148.34	N.A.	90.00
10-90	1124.57	N.A.	88.20
20-40	271.29	N.A.	21.30
20-50	448.44	N.A.	35.20
40-70	529.82	N.A.	41.50
60-80	315.31	N.A.	24.70
70-80	144.03	N.A.	11.30
80-90	107.63	N.A.	8.40
90-110	102.77	N.A.	8.10
90-120	120.54	N.A.	9.40
90-130	126.72	N.A.	9.90
90-150	127.41	N.A.	10.00
90-180	127.41	N.A.	10.00
110-180	24.63	N.A.	1.90
0-180	1275.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.77
10-20	71.79
20-30	116.78
30-40	154.51
40-50	177.15
50-60	181.39
60-70	171.28
70-80	144.03
80-90	107.63
90-100	66.49
100-110	36.28
110-120	17.77
120-130	6.18
130-140	0.68
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	103	96	91	85	99	93	88	83	87	82	79	81	78	74	76	73	70	67
2	92	82	73	66	88	79	71	65	74	67	62	69	63	59	64	60	56	53
3	83	70	61	53	79	68	59	52	63	56	50	59	53	48	55	50	46	43
4	75	62	52	44	72	60	50	43	56	48	41	52	45	40	49	43	38	35
5	69	54	44	37	66	53	43	36	49	41	35	46	39	34	43	37	32	30
6	63	49	39	32	60	47	38	31	44	36	30	41	34	29	39	33	28	26
7	58	44	34	28	56	42	34	27	40	32	26	38	31	25	35	29	25	22
8	54	40	31	24	52	39	30	24	36	29	23	34	27	22	32	26	22	20
9	50	36	28	22	48	35	27	21	33	26	21	31	25	20	30	24	19	17
10	47	33	25	19	45	32	24	19	31	23	19	29	23	18	28	22	17	16

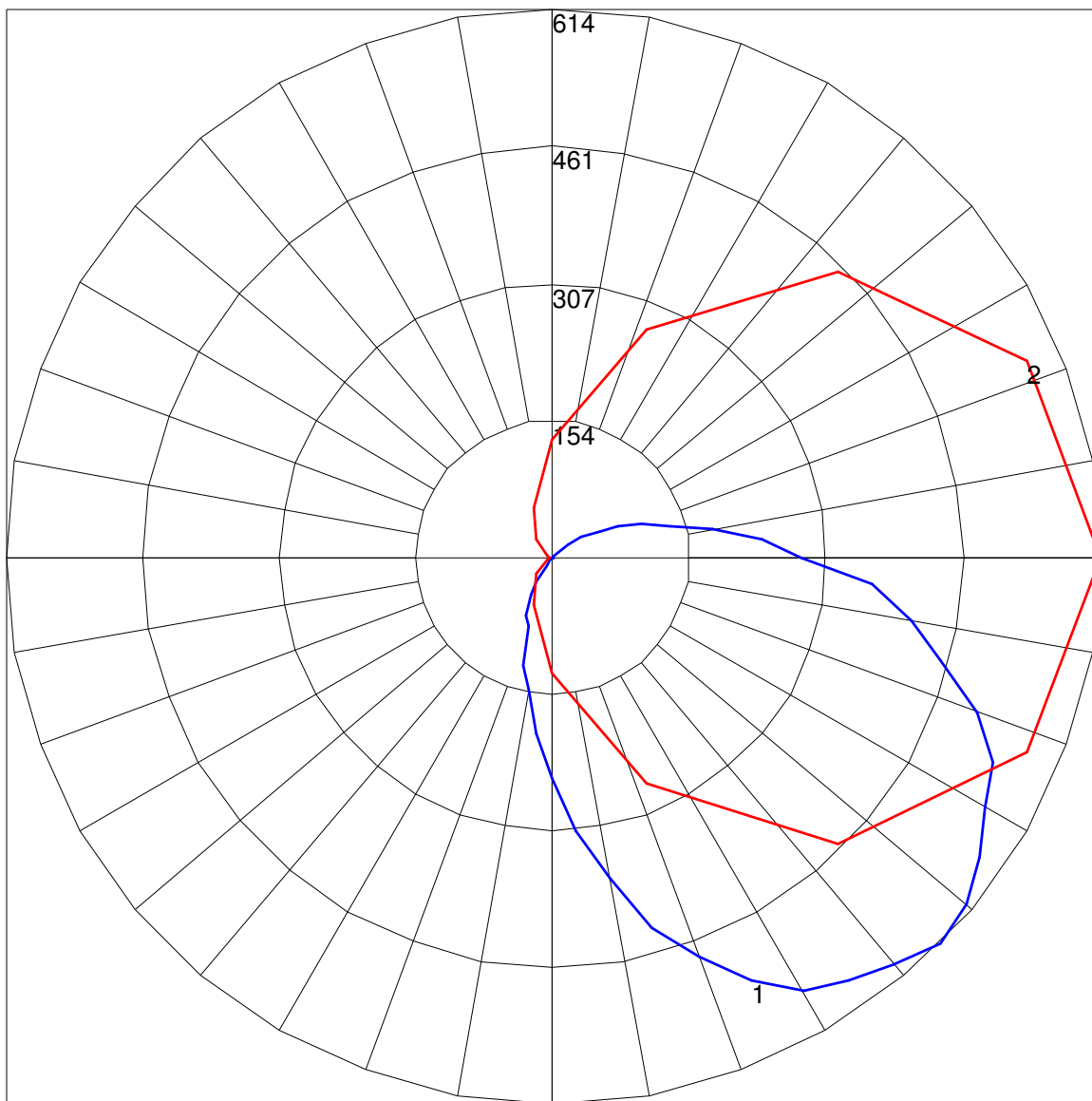
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.8	19.8	21.3	21.9	8.5	10.1	9.0	10.6	11.2
	3H	22.3	23.8	22.8	24.3	24.9	9.7	11.1	10.2	11.7	12.2
	4H	23.7	25.1	24.3	25.6	26.2	10.1	11.4	10.6	12.0	12.6
	6H	25.2	26.5	25.7	27.0	27.6	10.3	11.6	10.9	12.1	12.8
	8H	25.9	27.1	26.5	27.7	28.3	10.4	11.6	10.9	12.2	12.8
	12H	26.6	27.8	27.2	28.4	29.0	10.4	11.6	11.0	12.2	12.8
4H	2H	19.5	20.9	20.0	21.4	22.0	11.5	12.9	12.0	13.4	14.0
	3H	22.8	24.0	23.3	24.5	25.2	12.9	14.1	13.4	14.7	15.3
	4H	24.3	25.4	24.9	26.0	26.7	13.3	14.4	13.9	15.0	15.7
	6H	26.0	27.0	26.6	27.6	28.2	13.6	14.6	14.2	15.2	15.9
	8H	26.8	27.7	27.4	28.4	29.0	13.7	14.6	14.3	15.2	15.9
	12H	27.7	28.6	28.3	29.2	29.9	13.8	14.6	14.4	15.2	15.9
8H	4H	24.5	25.4	25.1	26.0	26.7	15.2	16.1	15.8	16.7	17.4
	6H	26.2	27.0	26.9	27.7	28.4	15.8	16.6	16.4	17.2	17.9
	8H	27.2	27.9	27.9	28.6	29.3	15.9	16.7	16.6	17.3	18.0
	12H	28.3	28.9	28.9	29.6	30.3	16.1	16.7	16.7	17.4	18.1
12H	4H	24.4	25.3	25.1	25.9	26.6	15.8	16.6	16.4	17.3	17.9
	6H	26.3	27.0	26.9	27.6	28.4	16.5	17.2	17.2	17.9	18.6
	8H	27.3	27.9	27.9	28.6	29.3	16.8	17.5	17.5	18.1	18.9

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 614.436 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.)