



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L45)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20112.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-14-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' NARROW LOW PROFILE WRAP LED LUMINAIRE

[MORE] WITH FROSTED PRISMATIC ACRYLIC DIFFUSER

[LUMCAT] 17-4-L55-835-AF-(L45)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct

[_SEARCH_MOUNTING] Pendant, Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	31.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4063	3785	3854
55	3363	3217	3364
65	2632	2610	2816
75	1977	2007	2340
85	957	1315	1857

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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>
0	1620.096	1620.096	1620.096	1620.096	1620.096
5	1638.534	1617.691	1604.865	1600.857	1598.452
10	1612.881	1592.039	1580.015	1577.610	1570.395
15	1575.205	1556.767	1544.743	1542.338	1537.528
20	1518.289	1499.851	1488.629	1495.843	1487.025
25	1444.539	1431.713	1419.688	1431.713	1423.697
30	1353.955	1345.938	1336.319	1349.145	1348.343
35	1243.330	1246.536	1233.710	1256.957	1260.965
40	1111.060	1116.672	1114.267	1145.531	1155.150
45	969.172	977.188	996.427	1018.873	1034.906
50	813.655	823.275	864.158	881.794	902.636
55	660.544	672.568	723.873	753.533	777.582
60	517.854	535.489	591.604	622.066	652.528
65	390.394	415.245	469.756	501.821	525.870
70	282.174	307.826	358.329	396.006	413.642
75	189.185	210.829	259.728	305.421	319.851
80	109.022	131.467	175.557	220.449	234.076
85	38.478	60.122	98.601	149.905	153.112
90	0.000	18.438	54.511	94.592	104.212
95	0.000	18.438	52.908	86.576	98.601
100	0.000	19.239	52.106	82.568	92.188
105	0.000	18.438	51.304	76.957	85.775
110	0.000	20.842	49.701	73.750	80.965
115	0.000	19.239	47.296	69.742	76.957
120	0.000	21.644	44.891	64.130	71.345
125	0.000	19.239	40.883	58.519	64.932
130	0.000	18.438	36.073	51.304	57.717
135	0.000	17.636	33.668	45.693	50.503
140	0.000	16.834	29.660	40.883	45.693
145	0.000	0.000	25.652	36.875	40.082
150	0.000	0.000	23.247	29.660	34.470
155	0.000	0.000	20.842	27.255	25.652
160	0.000	0.000	18.438	22.446	22.446
165	0.000	0.000	0.000	17.636	20.842
170	0.000	0.000	0.000	0.000	17.636
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	590.03	N.A.	13.00
0-30	1248.09	N.A.	27.60
0-40	2026.13	N.A.	44.80
0-60	3437.66	N.A.	76.00
0-80	4172.88	N.A.	92.30
0-90	4290.56	N.A.	94.90
10-90	4137.61	N.A.	91.50
20-40	1436.1	N.A.	31.80
20-50	2204.68	N.A.	48.80
40-70	1871.57	N.A.	41.40
60-80	735.22	N.A.	16.30
70-80	275.17	N.A.	6.10
80-90	117.68	N.A.	2.60
90-110	107.41	N.A.	2.40
90-120	150.90	N.A.	3.30
90-130	184.78	N.A.	4.10
90-150	222.18	N.A.	4.90
90-180	231.57	N.A.	5.10
110-180	124.16	N.A.	2.70
0-180	4522.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.94
10-20	437.09
20-30	658.06
30-40	778.04
40-50	768.58
50-60	642.95
60-70	460.05
70-80	275.17
80-90	117.68
90-100	56.88
100-110	50.52
110-120	43.49
120-130	33.88
130-140	23.74
140-150	13.66
150-160	7.11
160-170	2.20
170-180	0.08

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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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	79	69	61	55	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

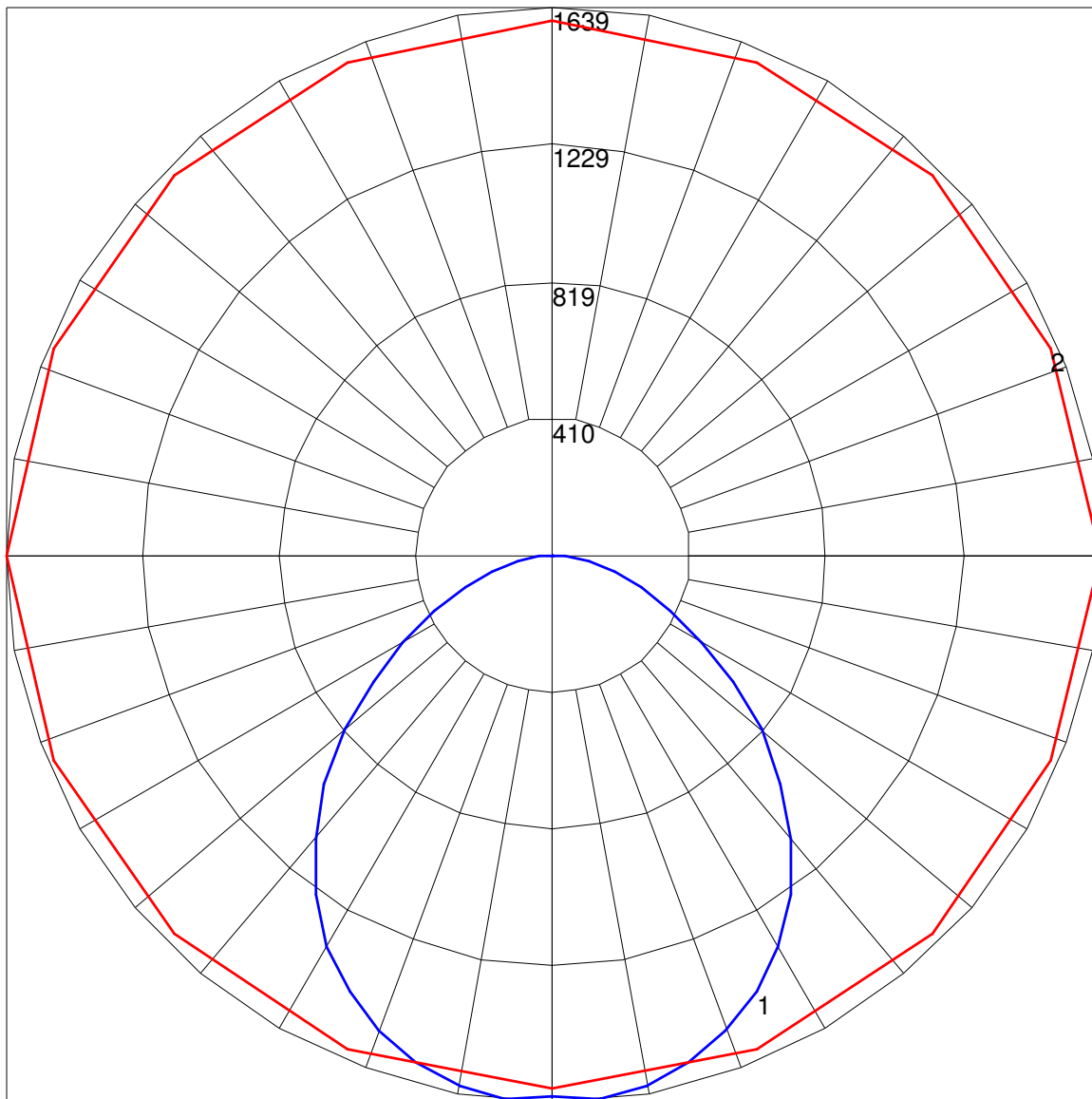
Reflectances

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	14.7	16.2	15.1	16.6	17.0	16.1	17.6	16.5	18.0	18.4
	3H	16.0	17.3	16.4	17.8	18.2	17.9	19.2	18.3	19.6	20.1
	4H	16.4	17.7	16.9	18.1	18.6	18.6	19.9	19.1	20.4	20.9
	6H	16.6	17.8	17.1	18.3	18.8	19.4	20.5	19.8	21.0	21.5
	8H	16.7	17.8	17.2	18.3	18.8	19.7	20.8	20.2	21.3	21.8
	12H	16.7	17.8	17.2	18.3	18.8	20.0	21.0	20.5	21.5	22.1
4H	2H	15.4	16.6	15.8	17.1	17.6	16.5	17.7	17.0	18.2	18.7
	3H	16.9	17.9	17.4	18.4	19.0	18.5	19.6	19.0	20.1	20.6
	4H	17.4	18.3	17.9	18.9	19.4	19.4	20.4	19.9	20.9	21.4
	6H	17.7	18.6	18.3	19.1	19.7	20.3	21.1	20.8	21.7	22.2
	8H	17.8	18.6	18.4	19.1	19.7	20.7	21.5	21.2	22.0	22.6
	12H	17.9	18.6	18.4	19.1	19.7	21.1	21.8	21.6	22.4	22.9
8H	4H	17.8	18.6	18.3	19.1	19.7	19.6	20.4	20.1	20.9	21.5
	6H	18.2	18.9	18.8	19.5	20.1	20.6	21.3	21.2	21.8	22.4
	8H	18.4	19.0	19.0	19.6	20.2	21.1	21.7	21.7	22.3	22.9
	12H	18.5	19.0	19.0	19.6	20.2	21.6	22.2	22.2	22.7	23.4
12H	4H	17.9	18.6	18.4	19.1	19.7	19.6	20.3	20.2	20.9	21.5
	6H	18.4	19.0	19.0	19.5	20.2	20.6	21.2	21.2	21.8	22.4
	8H	18.6	19.1	19.1	19.7	20.3	21.2	21.7	21.8	22.3	23.0

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1638.534 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)