



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L30)-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] 12-13-2024

[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(L30)-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	3040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	20.4
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	2731	2545	2591
55	2261	2163	2261
65	1770	1755	1893
75	1329	1349	1573
85	643	884	1248

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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	1089.140	1089.140	1089.140	1089.140	1089.140
5	1101.535	1087.523	1078.901	1076.206	1074.590
10	1084.290	1070.278	1062.195	1060.578	1055.728
15	1058.961	1046.566	1038.483	1036.866	1033.632
20	1020.698	1008.303	1000.759	1005.609	999.681
25	971.119	962.496	954.412	962.496	957.107
30	910.222	904.832	898.366	906.988	906.449
35	835.852	838.007	829.385	845.013	847.708
40	746.931	750.704	749.087	770.105	776.572
45	651.544	656.933	669.867	684.957	695.735
50	546.995	553.462	580.947	592.803	606.814
55	444.063	452.147	486.637	506.577	522.744
60	348.137	359.993	397.717	418.195	438.674
65	262.450	279.156	315.802	337.359	353.526
70	189.697	206.942	240.893	266.222	278.078
75	127.183	141.734	174.607	205.325	215.026
80	73.292	88.381	118.022	148.201	157.362
85	25.868	40.418	66.286	100.776	102.932
90	0.000	12.395	36.646	63.592	70.058
95	0.000	12.395	35.568	58.202	66.286
100	0.000	12.934	35.029	55.508	61.975
105	0.000	12.395	34.490	51.736	57.664
110	0.000	14.012	33.413	49.580	54.430
115	0.000	12.934	31.796	46.885	51.736
120	0.000	14.551	30.179	43.113	47.963
125	0.000	12.934	27.484	39.341	43.652
130	0.000	12.395	24.251	34.490	38.802
135	0.000	11.856	22.634	30.718	33.951
140	0.000	11.317	19.940	27.484	30.718
145	0.000	0.000	17.245	24.790	26.946
150	0.000	0.000	15.628	19.940	23.173
155	0.000	0.000	14.012	18.323	17.245
160	0.000	0.000	12.395	15.090	15.090
165	0.000	0.000	0.000	11.856	14.012
170	0.000	0.000	0.000	0.000	11.856
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	396.66	N.A.	13.00
0-30	839.05	N.A.	27.60
0-40	1362.11	N.A.	44.80
0-60	2311.03	N.A.	76.00
0-80	2805.3	N.A.	92.30
0-90	2884.41	N.A.	94.90
10-90	2781.59	N.A.	91.50
20-40	965.45	N.A.	31.80
20-50	1482.14	N.A.	48.80
40-70	1258.2	N.A.	41.40
60-80	494.27	N.A.	16.30
70-80	184.99	N.A.	6.10
80-90	79.11	N.A.	2.60
90-110	72.21	N.A.	2.40
90-120	101.44	N.A.	3.30
90-130	124.22	N.A.	4.10
90-150	149.36	N.A.	4.90
90-180	155.67	N.A.	5.10
110-180	83.47	N.A.	2.70
0-180	3040.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.82
10-20	293.84
20-30	442.39
30-40	523.05
40-50	516.69
50-60	432.23
60-70	309.28
70-80	184.99
80-90	79.11
90-100	38.24
100-110	33.97
110-120	29.24
120-130	22.78
130-140	15.96
140-150	9.19
150-160	4.78
160-170	1.48
170-180	0.05

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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

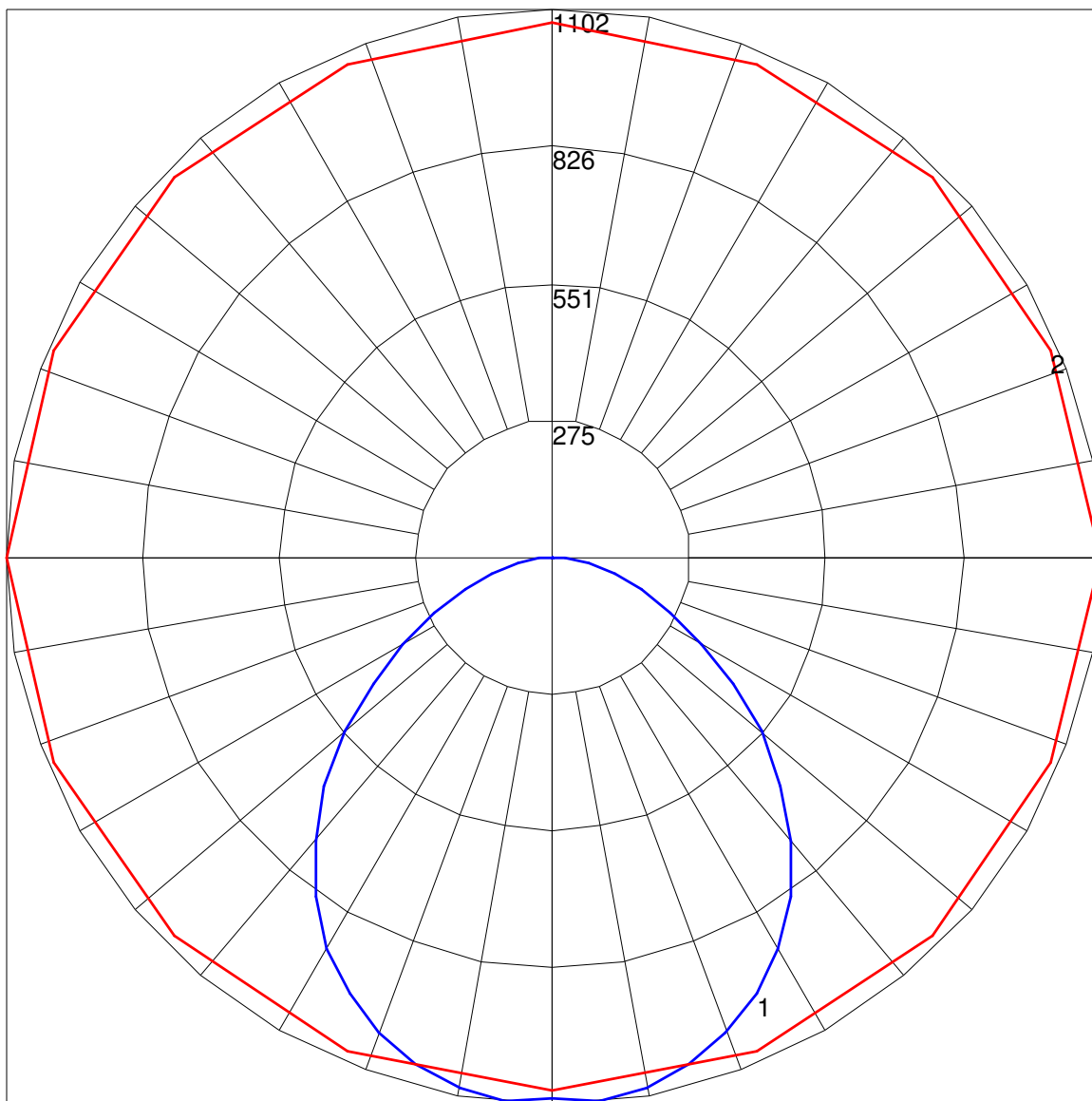
Reflectances

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	13.4	14.9	13.8	15.3	15.7	14.8	16.3	15.2	16.7	17.1
	3H	14.7	16.0	15.1	16.5	16.9	16.6	17.9	17.0	18.3	18.8
	4H	15.1	16.4	15.6	16.8	17.3	17.3	18.6	17.8	19.1	19.6
	6H	15.3	16.5	15.8	17.0	17.5	18.1	19.2	18.5	19.7	20.2
	8H	15.4	16.5	15.9	17.0	17.5	18.4	19.5	18.9	20.0	20.5
	12H	15.4	16.5	15.9	17.0	17.5	18.7	19.7	19.2	20.2	20.8
4H	2H	14.1	15.3	14.5	15.8	16.3	15.2	16.4	15.7	16.9	17.4
	3H	15.6	16.6	16.1	17.1	17.7	17.2	18.3	17.7	18.8	19.3
	4H	16.1	17.0	16.6	17.6	18.1	18.1	19.1	18.6	19.6	20.1
	6H	16.4	17.3	17.0	17.8	18.4	19.0	19.8	19.5	20.4	20.9
	8H	16.5	17.3	17.1	17.8	18.4	19.4	20.2	19.9	20.7	21.3
	12H	16.6	17.3	17.1	17.8	18.4	19.8	20.5	20.3	21.1	21.6
8H	4H	16.5	17.3	17.0	17.8	18.4	18.3	19.1	18.8	19.6	20.2
	6H	16.9	17.6	17.5	18.2	18.8	19.3	20.0	19.9	20.5	21.1
	8H	17.1	17.7	17.7	18.3	18.9	19.8	20.4	20.4	21.0	21.6
	12H	17.2	17.7	17.7	18.3	18.9	20.3	20.9	20.9	21.4	22.1
12H	4H	16.6	17.3	17.1	17.8	18.4	18.3	19.0	18.9	19.6	20.2
	6H	17.1	17.7	17.7	18.2	18.9	19.3	19.9	19.9	20.5	21.1
	8H	17.3	17.8	17.8	18.4	19.0	19.9	20.4	20.5	21.0	21.7

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1101.535 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.)