



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L40)-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] 03-12-2024
 [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-(L40)-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	3945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	27.5
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	3545	3302	3362
55	2934	2807	2935
65	2296	2277	2456
75	1724	1750	2041
85	835	1147	1620

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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	1413.374	1413.374	1413.374	1413.374	1413.374
5	1429.459	1411.276	1400.087	1396.590	1394.492
10	1407.080	1388.897	1378.407	1376.309	1370.015
15	1374.211	1358.126	1347.636	1345.538	1341.342
20	1324.558	1308.473	1298.682	1304.976	1297.283
25	1260.218	1249.029	1238.538	1249.029	1242.035
30	1181.192	1174.199	1165.807	1176.996	1176.297
35	1084.683	1087.480	1076.291	1096.572	1100.068
40	969.291	974.186	972.088	999.363	1007.755
45	845.507	852.500	869.285	888.866	902.853
50	709.834	718.226	753.893	769.279	787.461
55	576.260	586.750	631.508	657.383	678.364
60	451.776	467.162	516.116	542.691	569.266
65	340.581	362.260	409.816	437.789	458.770
70	246.169	268.548	312.607	345.476	360.862
75	165.045	183.927	226.587	266.450	279.038
80	95.111	114.692	153.156	192.320	204.208
85	33.569	52.451	86.019	130.777	133.575
90	0.000	16.085	47.555	82.523	90.915
95	0.000	16.085	46.157	75.529	86.019
100	0.000	16.784	45.457	72.032	80.425
105	0.000	16.085	44.758	67.137	74.830
110	0.000	18.183	43.359	64.340	70.634
115	0.000	16.784	41.261	60.843	67.137
120	0.000	18.882	39.163	55.948	62.242
125	0.000	16.784	35.667	51.052	56.647
130	0.000	16.085	31.470	44.758	50.353
135	0.000	15.386	29.372	39.863	44.059
140	0.000	14.686	25.876	35.667	39.863
145	0.000	0.000	22.379	32.170	34.967
150	0.000	0.000	20.281	25.876	30.072
155	0.000	0.000	18.183	23.778	22.379
160	0.000	0.000	16.085	19.582	19.582
165	0.000	0.000	0.000	15.386	18.183
170	0.000	0.000	0.000	0.000	15.386
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	514.74	N.A.	13.00
0-30	1088.84	N.A.	27.60
0-40	1767.6	N.A.	44.80
0-60	2999.02	N.A.	76.00
0-80	3640.43	N.A.	92.30
0-90	3743.09	N.A.	94.90
10-90	3609.66	N.A.	91.50
20-40	1252.86	N.A.	31.80
20-50	1923.36	N.A.	48.80
40-70	1632.76	N.A.	41.40
60-80	641.41	N.A.	16.30
70-80	240.06	N.A.	6.10
80-90	102.66	N.A.	2.60
90-110	93.70	N.A.	2.40
90-120	131.64	N.A.	3.30
90-130	161.20	N.A.	4.10
90-150	193.83	N.A.	4.90
90-180	202.02	N.A.	5.10
110-180	108.32	N.A.	2.70
0-180	3945.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.43
10-20	381.32
20-30	574.09
30-40	678.76
40-50	670.51
50-60	560.91
60-70	401.35
70-80	240.06
80-90	102.66
90-100	49.63
100-110	44.08
110-120	37.94
120-130	29.56
130-140	20.71
140-150	11.92
150-160	6.20
160-170	1.92
170-180	0.07

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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

X=2H	Y=2H	14.3	15.8	14.7	16.2	16.6	15.7	17.2	16.1	17.6	18.0
	3H	15.6	16.9	16.0	17.4	17.8	17.5	18.8	17.9	19.2	19.7
	4H	16.0	17.3	16.5	17.7	18.2	18.2	19.5	18.7	20.0	20.5
	6H	16.2	17.4	16.7	17.9	18.4	19.0	20.1	19.4	20.6	21.1
	8H	16.3	17.4	16.8	17.9	18.4	19.3	20.4	19.8	20.9	21.4
	12H	16.3	17.4	16.8	17.9	18.4	19.6	20.6	20.1	21.1	21.7

UGR Viewed Endwise

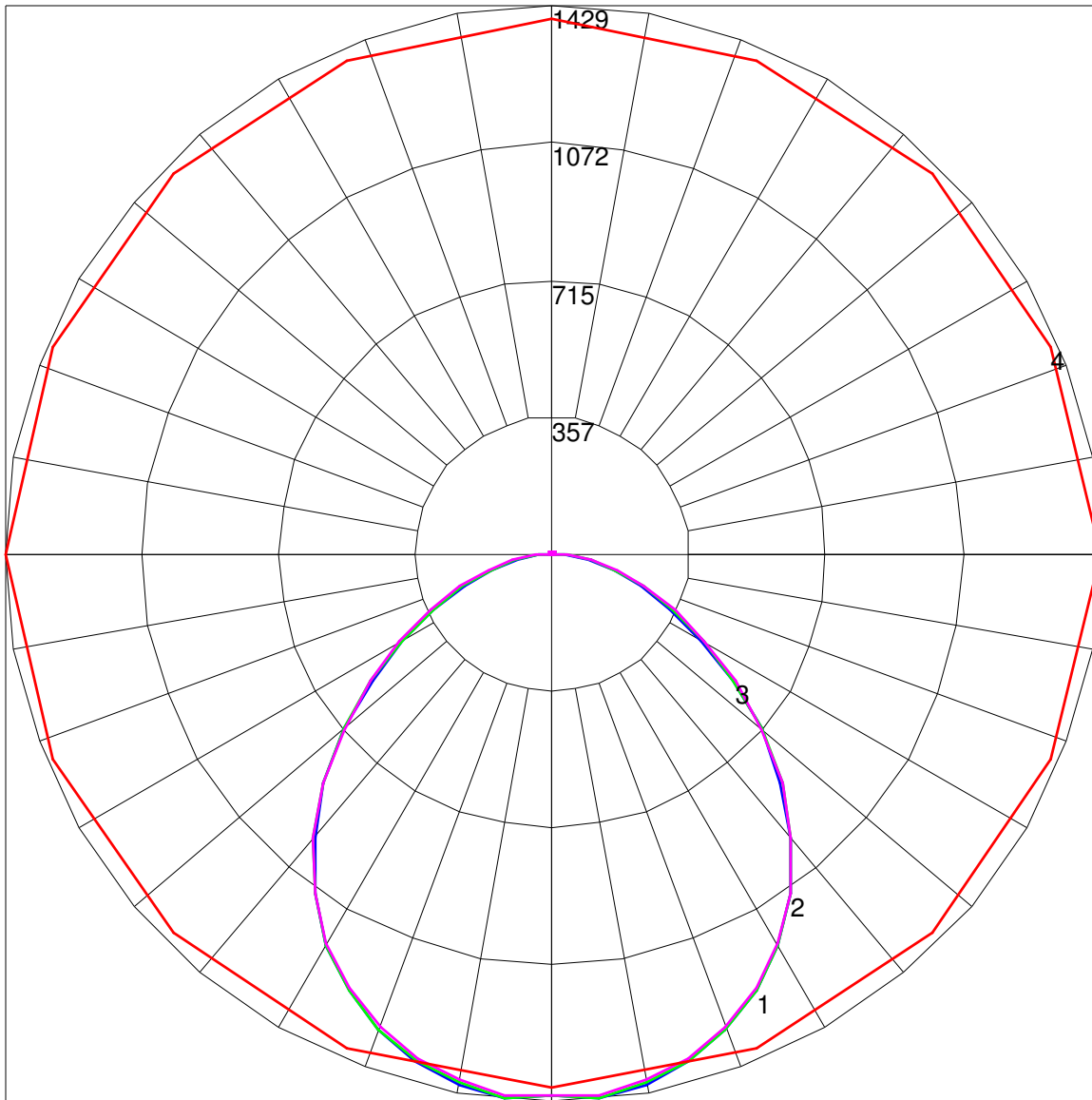
4H	2H	15.0	16.2	15.4	16.7	17.2	16.1	17.3	16.6	17.8	18.3
	3H	16.5	17.5	17.0	18.0	18.6	18.1	19.2	18.6	19.7	20.2
	4H	17.0	17.9	17.5	18.5	19.0	19.0	20.0	19.5	20.5	21.0
	6H	17.3	18.2	17.9	18.7	19.3	19.9	20.7	20.4	21.3	21.8
	8H	17.4	18.2	18.0	18.7	19.3	20.3	21.1	20.8	21.6	22.2
	12H	17.5	18.2	18.0	18.7	19.3	20.7	21.4	21.2	22.0	22.5

8H	4H	17.4	18.2	17.9	18.7	19.3	19.2	20.0	19.7	20.5	21.1
	6H	17.8	18.5	18.4	19.1	19.7	20.2	20.9	20.8	21.4	22.0
	8H	18.0	18.6	18.6	19.2	19.8	20.7	21.3	21.3	21.9	22.5
	12H	18.1	18.6	18.6	19.2	19.8	21.2	21.8	21.8	22.3	23.0

12H	4H	17.5	18.2	18.0	18.7	19.3	19.2	19.9	19.8	20.5	21.1
	6H	18.0	18.6	18.6	19.1	19.8	20.2	20.8	20.8	21.4	22.0
	8H	18.2	18.7	18.7	19.3	19.9	20.8	21.3	21.4	21.9	22.6

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1429.459 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)