

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-EM10W-DIM-UNV (EMER MODE)_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20112.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 08-22-2023

[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-EM10W-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	1431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	10
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	1286	1198	1219
55	1064	1018	1064
65	833	826	891
75	625	635	740
85	303	416	587

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	512.593	512.593	512.593	512.593	512.593
5	518.426	511.832	507.773	506.505	505.744
10	510.310	503.715	499.911	499.150	496.867
15	498.389	492.556	488.751	487.990	486.468
20	480.381	474.548	470.997	473.279	470.489
25	457.047	452.989	449.184	452.989	450.452
30	428.386	425.850	422.806	426.865	426.611
35	393.385	394.399	390.341	397.697	398.965
40	351.535	353.311	352.550	362.442	365.485
45	306.642	309.179	315.266	322.368	327.440
50	257.438	260.481	273.416	278.996	285.591
55	208.994	212.798	229.031	238.415	246.024
60	163.847	169.427	187.181	196.819	206.457
65	123.519	131.382	148.629	158.774	166.383
70	89.279	97.395	113.374	125.295	130.875
75	59.857	66.706	82.177	96.634	101.200
80	34.494	41.596	55.546	69.749	74.061
85	12.174	19.022	31.197	47.429	48.444
90	0.000	5.834	17.247	29.929	32.972
95	0.000	5.834	16.740	27.392	31.197
100	0.000	6.087	16.486	26.124	29.168
105	0.000	5.834	16.233	24.349	27.139
110	0.000	6.594	15.725	23.334	25.617
115	0.000	6.087	14.964	22.066	24.349
120	0.000	6.848	14.203	20.291	22.573
125	0.000	6.087	12.935	18.515	20.544
130	0.000	5.834	11.413	16.233	18.262
135	0.000	5.580	10.653	14.457	15.979
140	0.000	5.326	9.384	12.935	14.457
145	0.000	0.000	8.116	11.667	12.682
150	0.000	0.000	7.355	9.384	10.906
155	0.000	0.000	6.594	8.624	8.116
160	0.000	0.000	5.834	7.102	7.102
165	0.000	0.000	0.000	5.580	6.594
170	0.000	0.000	0.000	0.000	5.580
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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Zone	Lumens	%Lamp	%Fixt
0-20	186.68	N.A.	13.00
0-30	394.89	N.A.	27.60
0-40	641.06	N.A.	44.80
0-60	1087.66	N.A.	76.00
0-80	1320.28	N.A.	92.30
0-90	1357.52	N.A.	94.90
10-90	1309.13	N.A.	91.50
20-40	454.38	N.A.	31.80
20-50	697.55	N.A.	48.80
40-70	592.16	N.A.	41.40
60-80	232.62	N.A.	16.30
70-80	87.06	N.A.	6.10
80-90	37.23	N.A.	2.60
90-110	33.98	N.A.	2.40
90-120	47.74	N.A.	3.30
90-130	58.46	N.A.	4.10
90-150	70.30	N.A.	4.90
90-180	73.27	N.A.	5.10
110-180	39.28	N.A.	2.70
0-180	1430.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.39
10-20	138.29
20-30	208.21
30-40	246.17
40-50	243.17
50-60	203.43
60-70	145.56
70-80	87.06
80-90	37.23
90-100	18.00
100-110	15.99
110-120	13.76
120-130	10.72
130-140	7.51
140-150	4.32
150-160	2.25
160-170	0.70
170-180	0.02

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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	36	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	26
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	10.7	12.2	11.1	12.6	13.0	12.1	13.6	12.5	14.0	14.4
	3H	12.0	13.3	12.4	13.8	14.2	13.9	15.2	14.3	15.6	16.1
	4H	12.4	13.7	12.9	14.1	14.6	14.6	15.9	15.1	16.4	16.9
	6H	12.6	13.8	13.1	14.3	14.8	15.4	16.5	15.8	17.0	17.5
	8H	12.7	13.8	13.2	14.3	14.8	15.7	16.8	16.2	17.3	17.8
	12H	12.7	13.8	13.2	14.3	14.8	16.0	17.0	16.5	17.5	18.1

UGR Viewed Endwise

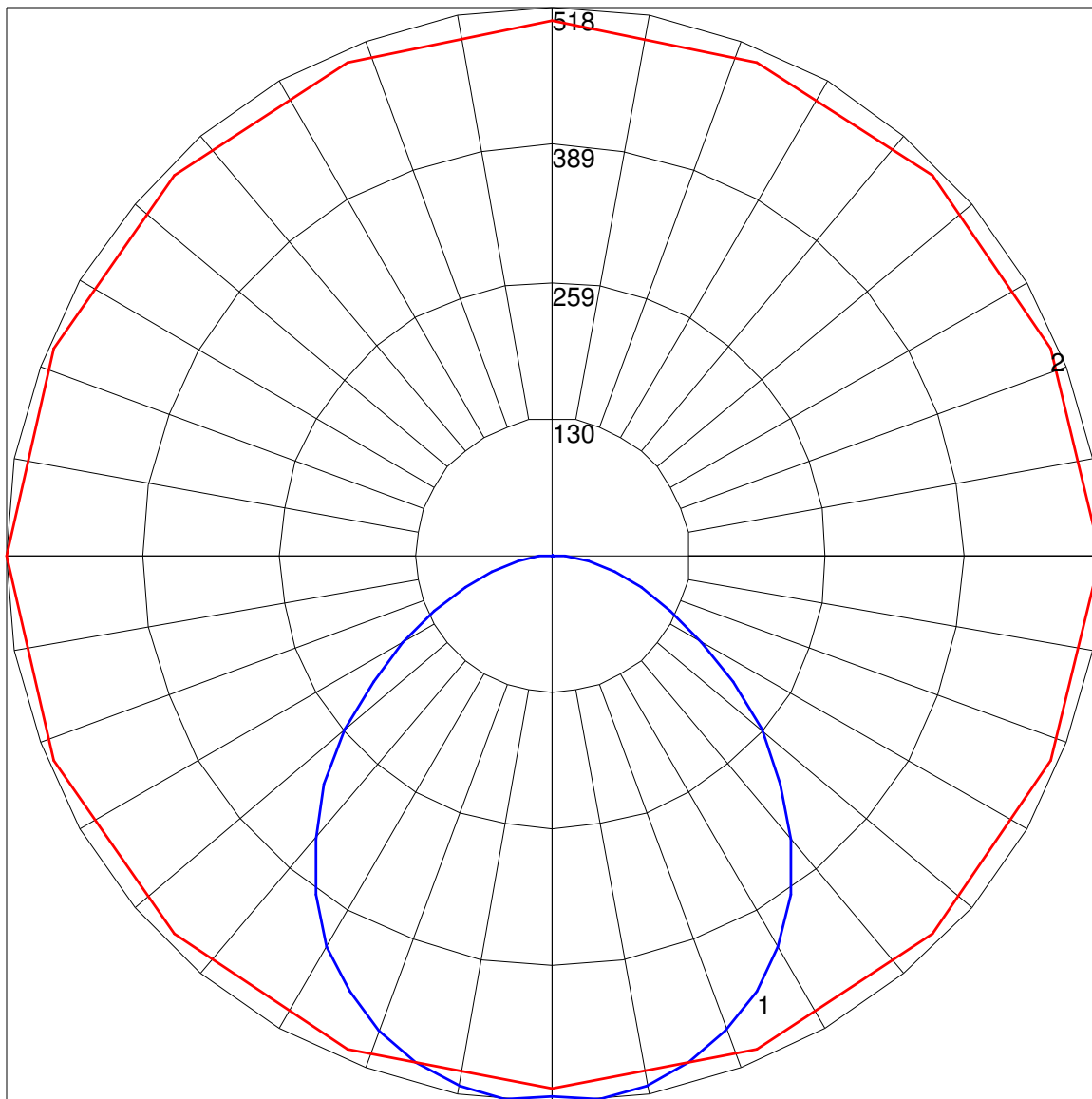
4H	2H	11.4	12.6	11.8	13.1	13.6	12.5	13.7	12.9	14.2	14.7
	3H	12.9	13.9	13.4	14.4	14.9	14.5	15.6	15.0	16.1	16.6
	4H	13.4	14.3	13.9	14.9	15.4	15.4	16.4	15.9	16.9	17.4
	6H	13.7	14.6	14.3	15.1	15.7	16.3	17.1	16.8	17.7	18.2
	8H	13.8	14.6	14.4	15.1	15.7	16.7	17.5	17.2	18.0	18.6
	12H	13.9	14.6	14.4	15.1	15.7	17.1	17.8	17.6	18.4	18.9

8H	4H	13.8	14.6	14.3	15.1	15.7	15.6	16.4	16.1	16.9	17.5
	6H	14.2	14.9	14.8	15.5	16.1	16.6	17.3	17.2	17.8	18.4
	8H	14.4	15.0	15.0	15.6	16.2	17.1	17.7	17.7	18.3	18.9
	12H	14.5	15.0	15.0	15.6	16.2	17.6	18.2	18.2	18.7	19.4

12H	4H	13.9	14.6	14.4	15.1	15.7	15.6	16.3	16.2	16.9	17.5
	6H	14.4	15.0	15.0	15.5	16.2	16.6	17.2	17.2	17.8	18.4
	8H	14.6	15.1	15.1	15.7	16.3	17.2	17.7	17.8	18.3	19.0

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 518.426 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.)