



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-840-AF-EM10W-DRV-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

[ISSUEDATE] 09-21-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED NARROW LOW PROFILE WRAP LED LUMINAIRE

[MORE] WITH FROSTED PRISMATIC ACRYLIC DIFFUSER

[LUMCAT] 17-4-L55-840-AF-EM10W-DRV-UNV (EMER MODE)

[LAMPCAT] HLM 80 CRI 4000K 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	1448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	1301	1212	1234
55	1077	1030	1077
65	843	836	902
75	633	643	749
85	306	421	595

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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	518.775	518.775	518.775	518.775	518.775
5	524.679	518.005	513.898	512.614	511.844
10	516.465	509.791	505.940	505.170	502.860
15	504.400	498.496	494.646	493.876	492.335
20	486.175	480.271	476.677	478.987	476.164
25	462.559	458.452	454.602	458.452	455.885
30	433.553	430.986	427.906	432.013	431.756
35	398.129	399.156	395.049	402.493	403.777
40	355.775	357.572	356.802	366.813	369.893
45	310.341	312.908	319.068	326.256	331.390
50	260.542	263.623	276.714	282.361	289.035
55	211.514	215.365	231.793	241.291	248.991
60	165.823	171.470	189.439	199.193	208.947
65	125.009	132.967	150.422	160.689	168.390
70	90.356	98.570	114.741	126.806	132.453
75	60.579	67.510	83.168	97.800	102.420
80	34.910	42.098	56.216	70.590	74.954
85	12.321	19.252	31.573	48.001	49.028
90	0.000	5.904	17.455	30.290	33.370
95	0.000	5.904	16.942	27.723	31.573
100	0.000	6.161	16.685	26.439	29.520
105	0.000	5.904	16.428	24.642	27.466
110	0.000	6.674	15.915	23.616	25.926
115	0.000	6.161	15.145	22.332	24.642
120	0.000	6.931	14.375	20.535	22.846
125	0.000	6.161	13.091	18.739	20.792
130	0.000	5.904	11.551	16.428	18.482
135	0.000	5.647	10.781	14.631	16.172
140	0.000	5.391	9.498	13.091	14.631
145	0.000	0.000	8.214	11.808	12.835
150	0.000	0.000	7.444	9.498	11.038
155	0.000	0.000	6.674	8.728	8.214
160	0.000	0.000	5.904	7.187	7.187
165	0.000	0.000	0.000	5.647	6.674
170	0.000	0.000	0.000	0.000	5.647
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 17-4-L55-840-AF-EM10W-DRV-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	188.94	N.A.	13.00
0-30	399.65	N.A.	27.60
0-40	648.79	N.A.	44.80
0-60	1100.78	N.A.	76.00
0-80	1336.21	N.A.	92.30
0-90	1373.89	N.A.	94.90
10-90	1324.91	N.A.	91.50
20-40	459.86	N.A.	31.80
20-50	705.96	N.A.	48.80
40-70	599.30	N.A.	41.40
60-80	235.43	N.A.	16.30
70-80	88.11	N.A.	6.10
80-90	37.68	N.A.	2.60
90-110	34.39	N.A.	2.40
90-120	48.32	N.A.	3.30
90-130	59.17	N.A.	4.10
90-150	71.14	N.A.	4.90
90-180	74.15	N.A.	5.10
110-180	39.76	N.A.	2.70
0-180	1448.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.97
10-20	139.96
20-30	210.72
30-40	249.14
40-50	246.11
50-60	205.88
60-70	147.31
70-80	88.11
80-90	37.68
90-100	18.21
100-110	16.18
110-120	13.93
120-130	10.85
130-140	7.60
140-150	4.38
150-160	2.28
160-170	0.70
170-180	0.03

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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

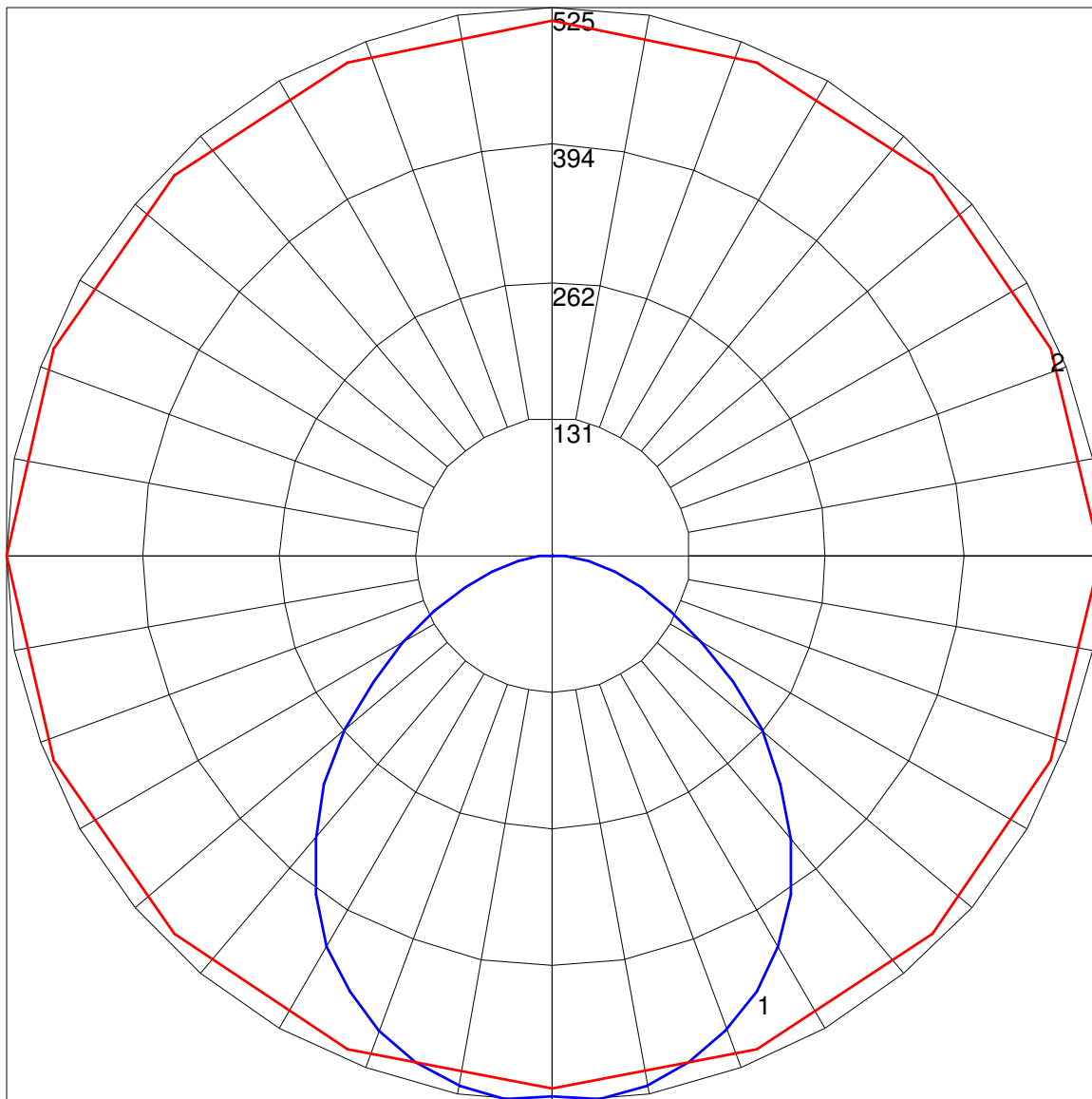
X=2H	Y=2H	10.8	12.3	11.2	12.7	13.1	12.2	13.7	12.6	14.1	14.5
	3H	12.1	13.4	12.5	13.9	14.3	14.0	15.3	14.4	15.7	16.2
	4H	12.5	13.8	13.0	14.2	14.7	14.7	16.0	15.2	16.5	17.0
	6H	12.7	13.9	13.2	14.4	14.9	15.5	16.6	15.9	17.1	17.6
	8H	12.8	13.9	13.3	14.4	14.9	15.8	16.9	16.3	17.4	17.9
	12H	12.8	13.9	13.3	14.4	14.9	16.1	17.1	16.6	17.6	18.2

### UGR Viewed Endwise

4H	2H	11.5	12.7	11.9	13.2	13.7	12.6	13.8	13.1	14.3	14.8
	3H	13.0	14.0	13.5	14.5	15.1	14.6	15.7	15.1	16.2	16.7
	4H	13.5	14.4	14.0	15.0	15.5	15.5	16.5	16.0	17.0	17.5
	6H	13.8	14.7	14.4	15.2	15.8	16.4	17.2	16.9	17.8	18.3
	8H	13.9	14.7	14.5	15.2	15.8	16.8	17.6	17.3	18.1	18.7
	12H	14.0	14.7	14.5	15.2	15.8	17.2	17.9	17.7	18.5	19.0
8H	4H	13.9	14.7	14.4	15.2	15.8	15.7	16.5	16.2	17.0	17.6
	6H	14.3	15.0	14.9	15.6	16.2	16.7	17.4	17.3	17.9	18.5
	8H	14.5	15.1	15.1	15.7	16.3	17.2	17.8	17.8	18.4	19.0
	12H	14.6	15.1	15.1	15.7	16.3	17.7	18.3	18.3	18.8	19.5
12H	4H	14.0	14.7	14.5	15.2	15.8	15.7	16.4	16.3	17.0	17.6
	6H	14.5	15.1	15.1	15.6	16.3	16.7	17.3	17.3	17.9	18.5
	8H	14.7	15.2	15.2	15.8	16.4	17.3	17.8	17.9	18.4	19.1

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 524.679 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.)