



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-FAF12125-(L30)-EM10W-WET-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18124.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06-12-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2x2' RECESSED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 50G-S22-L43-835-FAF12125-(L30)-EM10W-WET-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,CLASSROOM, COMMERCIAL, EDUCATIONAL,OFFICE, DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1398	1427	1486
55	1152	1161	1196
65	916	897	936
75	802	773	771
85	792	729	745

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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	549.818	549.818	549.818	549.818	549.818
5	549.021	548.623	547.428	546.232	545.834
10	537.866	538.264	538.264	537.268	539.061
15	528.104	528.901	531.690	531.292	534.081
20	487.266	492.047	493.840	496.032	500.613
25	464.158	470.134	472.923	476.310	482.685
30	427.902	431.886	438.062	441.249	450.213
35	383.080	385.670	393.439	400.610	408.977
40	336.266	337.660	344.632	351.804	360.768
45	288.256	288.057	294.232	297.619	306.384
50	239.649	239.848	244.430	243.434	252.598
55	192.636	193.034	194.229	193.432	200.006
60	148.809	148.411	148.411	146.419	152.594
65	112.952	111.159	110.561	109.964	115.342
70	84.266	82.473	81.277	81.477	83.070
75	60.560	59.364	58.368	57.771	58.169
80	39.643	39.443	38.846	37.451	37.651
85	20.120	20.917	18.526	18.526	18.925
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	199.80	N.A.	15.90
0-30	416.50	N.A.	33.10
0-40	662.33	N.A.	52.60
0-60	1063.89	N.A.	84.40
0-80	1239.00	N.A.	98.30
0-90	1260.06	N.A.	100.00
10-90	1208.11	N.A.	95.90
20-40	462.53	N.A.	36.70
20-50	689.69	N.A.	54.70
40-70	513.79	N.A.	40.80
60-80	175.11	N.A.	13.90
70-80	62.88	N.A.	5.00
80-90	21.06	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1260.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.95
10-20	147.85
20-30	216.69
30-40	245.84
40-50	227.16
50-60	174.40
60-70	112.23
70-80	62.88
80-90	21.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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	11.9	13.4	12.3	13.7	14.1	11.9	13.4	12.3	13.7	14.1
	3H	13.3	14.7	13.7	15.0	15.4	13.3	14.7	13.7	15.0	15.4
	4H	13.9	15.2	14.3	15.5	15.9	13.8	15.1	14.2	15.5	15.9
	6H	14.4	15.6	14.8	15.9	16.3	14.3	15.5	14.7	15.9	16.3
	8H	14.6	15.7	15.0	16.1	16.5	14.5	15.6	14.9	16.0	16.4
	12H	14.7	15.8	15.2	16.2	16.6	14.6	15.7	15.0	16.1	16.5

UGR Viewed Endwise

4H	2H	12.3	13.6	12.7	14.0	14.4	12.3	13.6	12.7	14.0	14.4
	3H	14.0	15.1	14.4	15.5	15.9	14.0	15.1	14.4	15.5	15.9
	4H	14.7	15.7	15.1	16.1	16.5	14.7	15.6	15.1	16.0	16.5
	6H	15.4	16.2	15.8	16.7	17.1	15.3	16.1	15.7	16.5	17.0
	8H	15.6	16.4	16.1	16.9	17.3	15.5	16.3	16.0	16.7	17.2
	12H	15.8	16.5	16.3	17.0	17.5	15.7	16.4	16.2	16.9	17.3

8H	4H	15.0	15.8	15.4	16.2	16.7	14.9	15.7	15.4	16.2	16.6
	6H	15.8	16.4	16.3	16.9	17.4	15.7	16.3	16.2	16.8	17.3
	8H	16.1	16.7	16.6	17.2	17.7	16.0	16.6	16.5	17.1	17.6
	12H	16.5	17.0	17.0	17.5	18.0	16.3	16.8	16.8	17.3	17.8

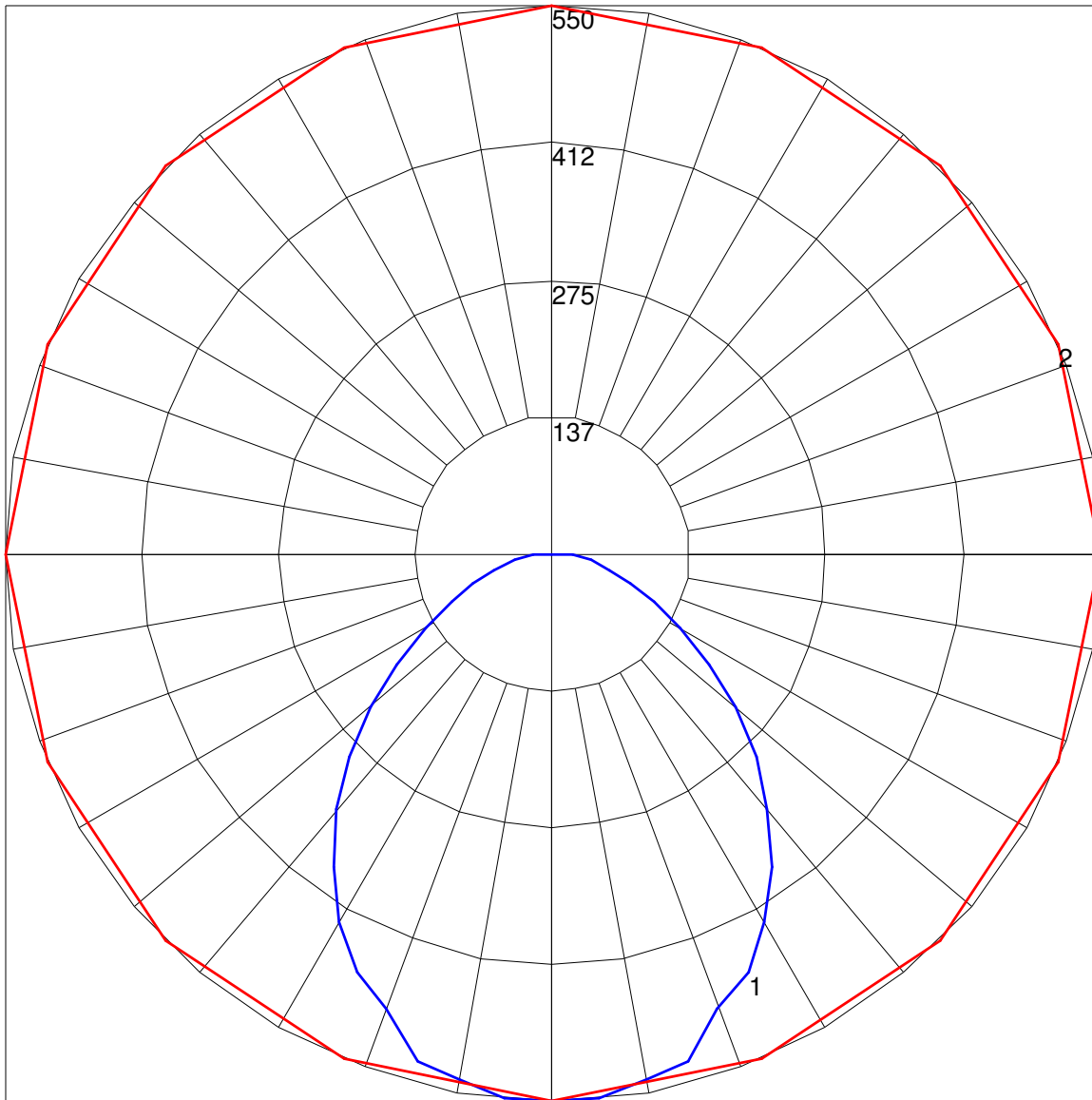
12H	4H	15.0	15.7	15.5	16.2	16.7	15.0	15.7	15.5	16.2	16.6
	6H	15.8	16.4	16.4	16.9	17.4	15.7	16.3	16.3	16.8	17.3
	8H	16.3	16.8	16.8	17.3	17.8	16.1	16.6	16.6	17.1	17.7

Maximum UGR = 18.0

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POLAR GRAPH



Maximum Candela = 549.818 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)