

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-EM10W-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

[ISSUE DATE] 08-22-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2x2' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 50G-S22-L26-835-SAF12125-EM10W-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	1241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	1377	1405	1464
55	1134	1144	1178
65	903	884	922
75	790	762	759
85	780	718	733

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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	541.634	541.634	541.634	541.634	541.634
5	540.849	540.457	539.279	538.102	537.709
10	529.860	530.252	530.252	529.271	531.037
15	520.244	521.029	523.776	523.384	526.131
20	480.014	484.723	486.490	488.648	493.162
25	457.249	463.137	465.884	469.220	475.500
30	421.533	425.458	431.541	434.681	443.512
35	377.378	379.929	387.582	394.647	402.890
40	331.260	332.634	339.503	346.567	355.398
45	283.966	283.769	289.853	293.189	301.824
50	236.082	236.278	240.792	239.811	248.838
55	189.768	190.161	191.338	190.553	197.029
60	146.594	146.202	146.202	144.240	150.323
65	111.271	109.504	108.916	108.327	113.625
70	83.011	81.245	80.068	80.264	81.834
75	59.658	58.481	57.500	56.911	57.303
80	39.053	38.856	38.268	36.894	37.090
85	19.821	20.606	18.251	18.251	18.643
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	196.83	N.A.	15.90
0-30	410.30	N.A.	33.10
0-40	652.48	N.A.	52.60
0-60	1048.05	N.A.	84.40
0-80	1220.56	N.A.	98.30
0-90	1241.3	N.A.	100.00
10-90	1190.13	N.A.	95.90
20-40	455.65	N.A.	36.70
20-50	679.43	N.A.	54.70
40-70	506.14	N.A.	40.80
60-80	172.51	N.A.	13.90
70-80	61.94	N.A.	5.00
80-90	20.74	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	1241.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.18
10-20	145.65
20-30	213.47
30-40	242.18
40-50	223.78
50-60	171.80
60-70	110.56
70-80	61.94
80-90	20.74
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	52	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	14.0	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	16.2
	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	15.1	16.2	16.6	14.6	15.7	15.0	16.1	16.5

UGR Viewed Endwise

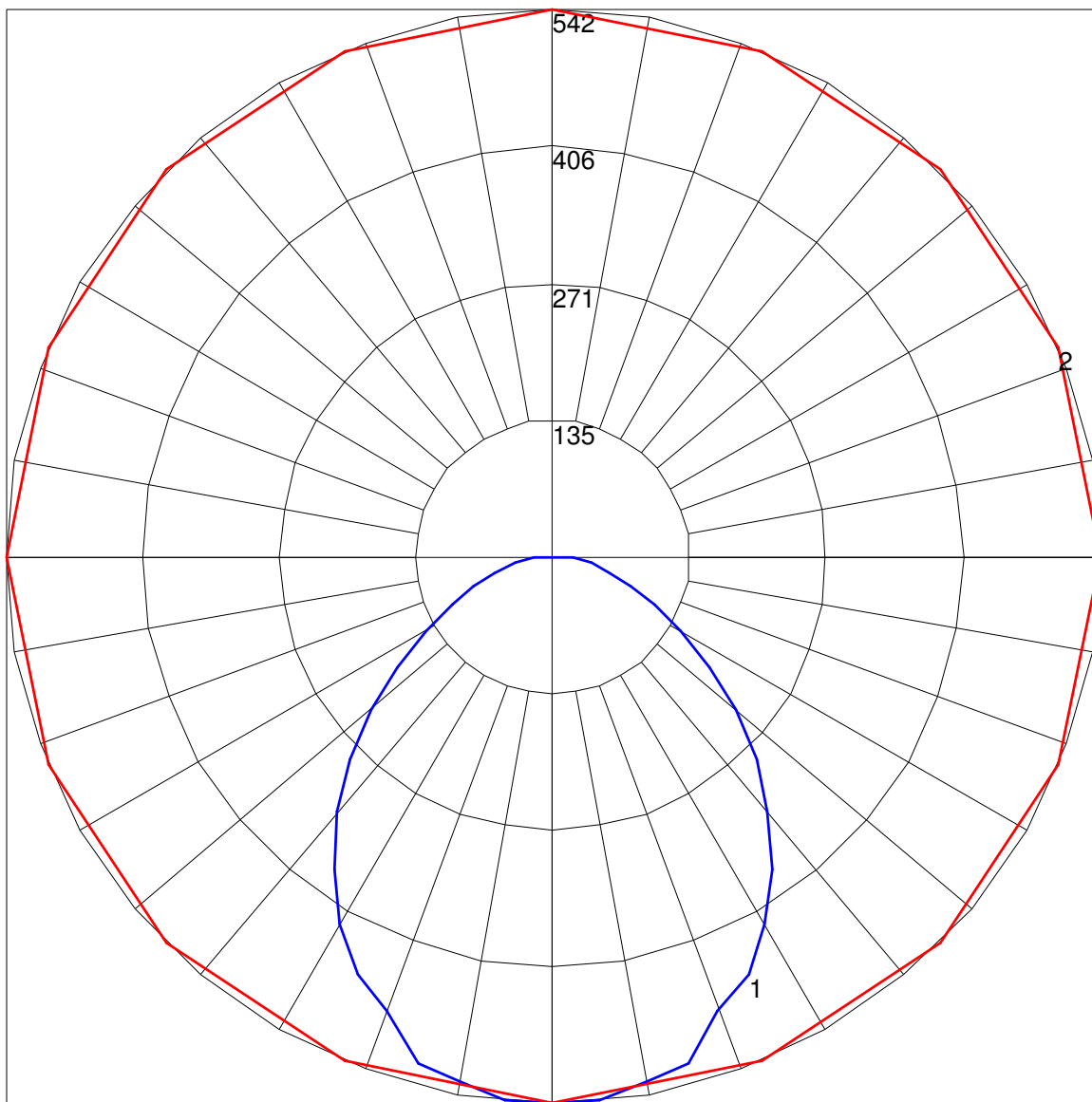
4H	2H	12.3	13.6	12.7	14.0	14.4	12.3	13.6	12.7	14.0	14.4
	3H	14.0	15.1	14.4	15.5	15.9	14.0	15.1	14.4	15.5	15.9
	4H	14.7	15.7	15.1	16.1	16.5	14.7	15.6	15.1	16.0	16.5
	6H	15.4	16.2	15.8	16.6	17.1	15.3	16.1	15.7	16.5	17.0
	8H	15.6	16.4	16.1	16.8	17.3	15.5	16.3	16.0	16.7	17.2
	12H	15.8	16.5	16.3	17.0	17.5	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	16.4	17.0	16.9	17.4	18.0	16.2	16.8	16.8	17.3	17.8
12H	4H	15.0	15.7	15.5	16.2	16.7	15.0	15.7	15.4	16.1	16.6
	6H	15.8	16.4	16.4	16.9	17.4	15.7	16.3	16.3	16.8	17.3
	8H	16.2	16.8	16.7	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 = 541.634 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.)