

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-840-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] 04-08-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 2x2' RECESSED LED TROFFER LUMINAIRE
[MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
[LUMCAT] 50G-S22-L26-840-SAF12125-EM10W-DIM-UNV
[LAMPCAT] HLM 80 CRI 4000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, DIRECT
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	1411	1440	1500
55	1162	1172	1207
65	925	905	945
75	810	780	778
85	799	736	752

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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	554.981	554.981	554.981	554.981	554.981
5	554.176	553.774	552.568	551.361	550.959
10	542.916	543.318	543.318	542.313	544.122
15	533.063	533.867	536.683	536.280	539.095
20	491.842	496.668	498.477	500.689	505.314
25	468.516	474.549	477.364	480.782	487.217
30	431.920	435.941	442.175	445.392	454.441
35	386.677	389.291	397.133	404.372	412.817
40	339.423	340.831	347.868	355.107	364.156
45	290.963	290.762	296.995	300.414	309.261
50	241.899	242.100	246.725	245.720	254.969
55	194.444	194.847	196.053	195.249	201.884
60	150.207	149.805	149.805	147.794	154.027
65	114.012	112.203	111.599	110.996	116.425
70	85.057	83.247	82.041	82.242	83.850
75	61.128	59.922	58.916	58.313	58.715
80	40.015	39.814	39.211	37.803	38.004
85	20.309	21.113	18.700	18.700	19.103
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	201.68	N.A.	15.90
0-30	420.41	N.A.	33.10
0-40	668.55	N.A.	52.60
0-60	1073.88	N.A.	84.40
0-80	1250.63	N.A.	98.30
0-90	1271.89	N.A.	100.00
10-90	1219.45	N.A.	95.90
20-40	466.88	N.A.	36.70
20-50	696.17	N.A.	54.70
40-70	518.61	N.A.	40.80
60-80	176.76	N.A.	13.90
70-80	63.47	N.A.	5.00
80-90	21.25	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	1271.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.44
10-20	149.24
20-30	218.73
30-40	248.15
40-50	229.29
50-60	176.03
60-70	113.29
70-80	63.47
80-90	21.25
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	66	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	15.1	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	16.9	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

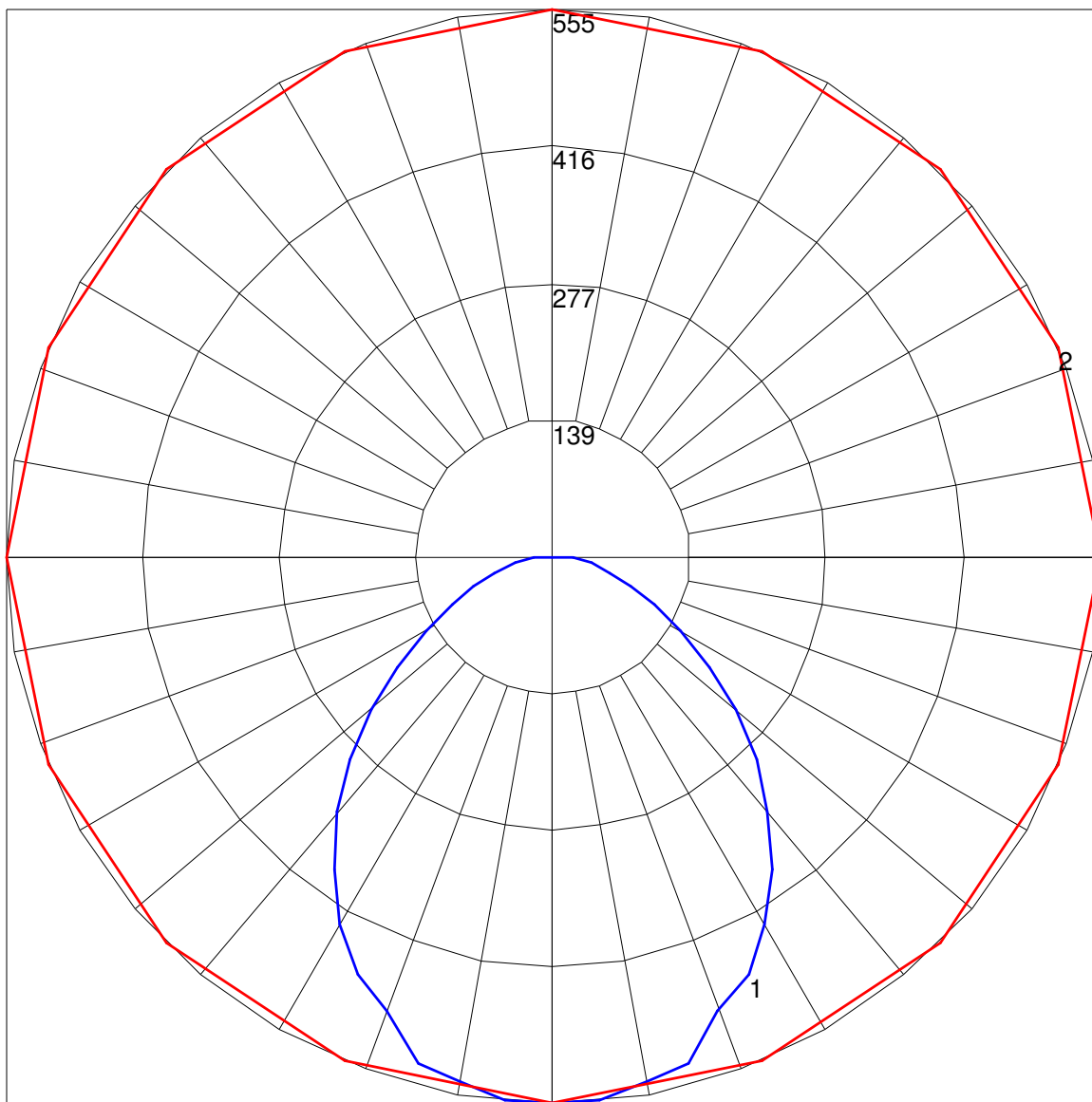
12H	4H	15.0	15.7	15.5	16.2	16.7	15.0	15.7	15.4	16.2	16.6
	6H	15.8	16.4	16.4	16.9	17.4	15.7	16.3	16.3	16.8	17.3
	8H	16.3	16.8	16.8	17.3	17.8	16.1	16.6	16.6	17.1	17.7

Maximum UGR = 18.0

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POLAR GRAPH



Maximum Candela = 554.981 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.)