

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L28-AMB-L28-835-SAF12125-DIM-UNV_(AMBER ONLY).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] 25-APR-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2x2' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 50G-S22-L28-AMB-L28-835-SAF12125-DIM-UNV amber only

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE TYPE]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	2809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	28.08
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	3116	3181	3312
55	2567	2588	2665
65	2043	2000	2086
75	1788	1724	1718
85	1765	1625	1660

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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	1225.716	1225.716	1225.716	1225.716	1225.716
5	1223.940	1223.051	1220.387	1217.722	1216.834
10	1199.070	1199.958	1199.958	1197.738	1201.735
15	1177.309	1179.085	1185.303	1184.415	1190.632
20	1086.269	1096.927	1100.924	1105.809	1116.023
25	1034.753	1048.076	1054.293	1061.843	1076.054
30	953.927	962.809	976.576	983.681	1003.666
35	854.004	859.778	877.097	893.085	911.737
40	749.641	752.749	768.293	784.281	804.265
45	642.613	642.169	655.936	663.485	683.026
50	534.252	534.696	544.911	542.690	563.119
55	429.445	430.333	432.997	431.221	445.876
60	331.743	330.854	330.854	326.413	340.181
65	251.805	247.808	246.475	245.143	257.134
70	187.854	183.857	181.193	181.637	185.190
75	135.006	132.342	130.121	128.789	129.677
80	88.376	87.932	86.599	83.491	83.935
85	44.854	46.630	41.301	41.301	42.189
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	445.42	N.A.	15.90
0-30	928.50	N.A.	33.10
0-40	1476.55	N.A.	52.60
0-60	2371.74	N.A.	84.40
0-80	2762.12	N.A.	98.30
0-90	2809.06	N.A.	100.00
10-90	2693.25	N.A.	95.90
20-40	1031.13	N.A.	36.70
20-50	1537.54	N.A.	54.70
40-70	1145.39	N.A.	40.80
60-80	390.38	N.A.	13.90
70-80	140.17	N.A.	5.00
80-90	46.94	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	2809.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.81
10-20	329.61
20-30	483.08
30-40	548.05
40-50	506.40
50-60	388.78
60-70	250.20
70-80	140.17
80-90	46.94
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	116	116	116	116	114	114	114	114	109	109	109	104	104	104	100	100	100	98
1	107	103	99	96	105	101	97	94	97	94	91	93	91	88	89	87	86	84
2	98	91	85	80	96	89	83	79	86	81	77	83	79	75	80	76	73	71
3	90	81	73	67	88	79	72	67	76	71	66	74	69	65	71	67	63	61
4	83	72	64	58	81	71	63	58	69	62	57	66	61	56	64	59	55	53
5	77	65	57	51	75	64	56	50	62	55	50	60	54	49	58	53	49	47
6	71	59	51	45	70	58	50	45	56	49	44	55	49	44	53	48	43	41
7	66	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	62	49	41	36	60	49	41	36	47	40	36	46	40	35	45	39	35	33
9	58	45	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	53	42	34	30	41	34	29	40	34	29	39	33	29	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	14.8	16.3	15.2	16.6	16.9	14.8	16.3	15.2	16.6	17.0
	3H	16.2	17.6	16.6	17.9	18.3	16.2	17.6	16.6	17.9	18.3
	4H	16.8	18.1	17.2	18.4	18.8	16.7	18.0	17.1	18.4	18.8
	6H	17.3	18.5	17.7	18.8	19.2	17.2	18.4	17.6	18.8	19.1
	8H	17.5	18.6	17.9	19.0	19.4	17.4	18.5	17.8	18.9	19.3
	12H	17.6	18.7	18.0	19.1	19.5	17.5	18.6	17.9	19.0	19.4

UGR Viewed Endwise

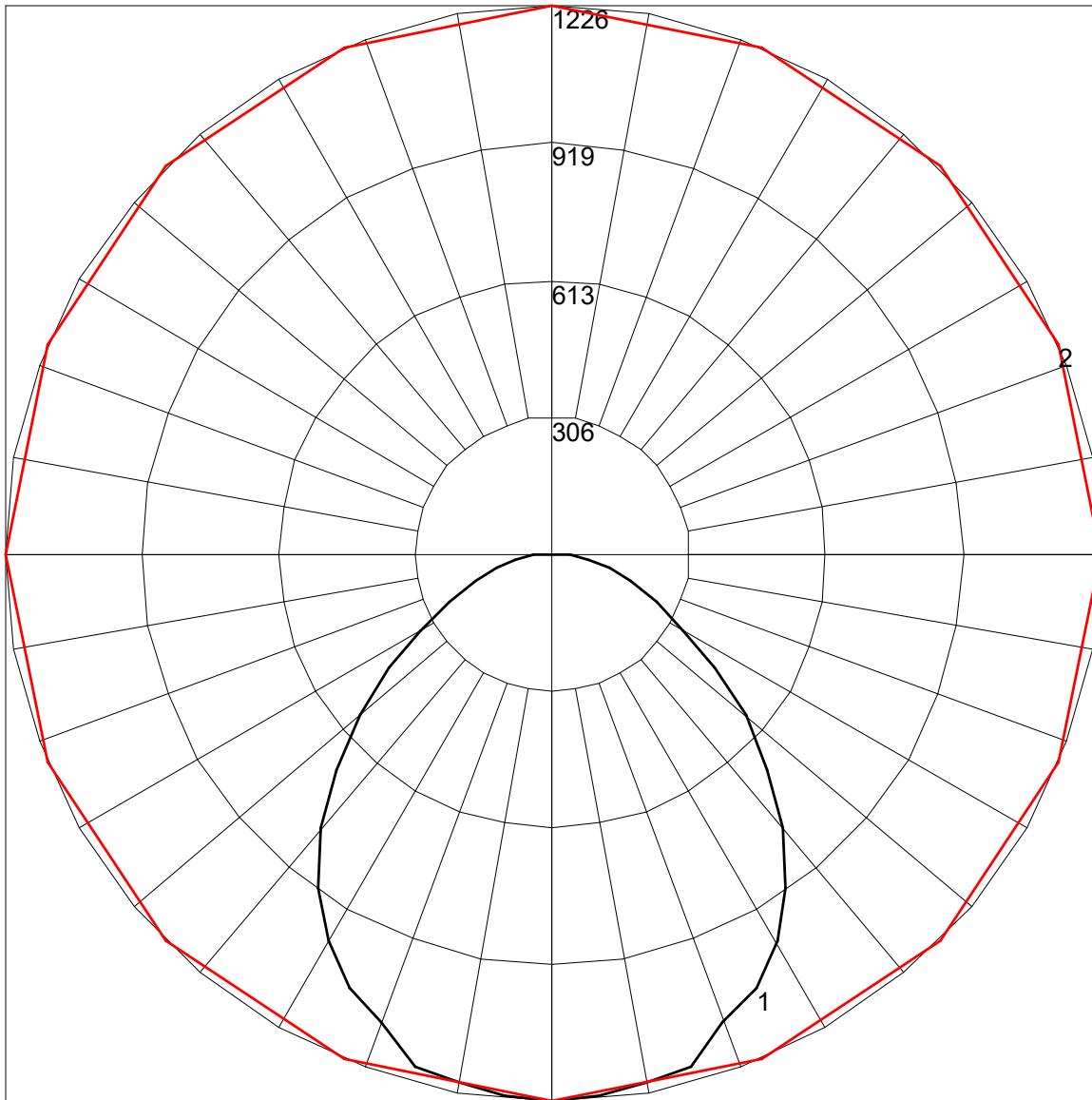
4H	2H	15.2	16.5	15.6	16.9	17.3	15.2	16.5	15.6	16.9	17.3
	3H	16.9	18.0	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.5	18.0	18.9	19.4
	6H	18.3	19.1	18.7	19.5	20.0	18.2	19.0	18.6	19.4	19.9
	8H	18.5	19.3	19.0	19.7	20.2	18.4	19.2	18.9	19.6	20.1
	12H	18.7	19.4	19.2	19.9	20.4	18.6	19.3	19.1	19.8	20.2
8H	4H	17.9	18.7	18.3	19.1	19.6	17.8	18.6	18.3	19.1	19.5
	6H	18.7	19.3	19.2	19.8	20.3	18.6	19.2	19.1	19.7	20.2
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.3	19.9	19.9	20.4	20.9	19.2	19.7	19.7	20.2	20.7
12H	4H	17.9	18.6	18.4	19.1	19.6	17.9	18.6	18.3	19.0	19.5
	6H	18.7	19.3	19.3	19.8	20.3	18.6	19.2	19.2	19.7	20.2
	8H	19.2	19.7	19.7	20.2	20.7	19.0	19.5	19.5	20.0	20.6

Maximum UGR = 20.9

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POLAR GRAPH



Maximum Candela = 1225.716 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)

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