



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-FAF12125-(L30)-WET-DIM-UNV_.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)-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	3068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	24.4
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	3403	3474	3617
55	2804	2827	2911
65	2231	2184	2279
75	1953	1883	1876
85	1927	1775	1813

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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	1338.764	1338.764	1338.764	1338.764	1338.764
5	1336.823	1335.853	1332.943	1330.033	1329.062
10	1309.660	1310.630	1310.630	1308.205	1312.570
15	1285.892	1287.832	1294.623	1293.653	1300.444
20	1186.455	1198.096	1202.462	1207.798	1218.954
25	1130.188	1144.740	1151.531	1159.777	1175.299
30	1041.907	1051.609	1066.645	1074.406	1096.234
35	932.769	939.075	957.992	975.454	995.827
40	818.780	822.175	839.153	856.615	878.442
45	701.881	701.396	716.433	724.679	746.021
50	583.526	584.011	595.168	592.742	615.055
55	469.052	470.022	472.933	470.993	487.000
60	362.339	361.369	361.369	356.519	371.555
65	275.029	270.663	269.208	267.753	280.849
70	205.180	200.815	197.904	198.389	202.270
75	147.458	144.548	142.122	140.667	141.637
80	96.527	96.042	94.587	91.191	91.676
85	48.991	50.931	45.111	45.111	46.081
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	486.50	N.A.	15.90
0-30	1014.13	N.A.	33.10
0-40	1612.73	N.A.	52.60
0-60	2590.48	N.A.	84.40
0-80	3016.87	N.A.	98.30
0-90	3068.14	N.A.	100.00
10-90	2941.65	N.A.	95.90
20-40	1126.23	N.A.	36.70
20-50	1679.34	N.A.	54.70
40-70	1251.03	N.A.	40.80
60-80	426.38	N.A.	13.90
70-80	153.10	N.A.	5.00
80-90	51.27	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	3068.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.49
10-20	360.01
20-30	527.64
30-40	598.60
40-50	553.11
50-60	424.64
60-70	273.28
70-80	153.10
80-90	51.27
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	15.0	16.5	15.4	16.8	17.1	UGR Viewed Endwise	15.0	16.5	15.4	16.8	17.2
	3H	16.4	17.8	16.8	18.1	18.5		16.4	17.8	16.8	18.1	18.5
	4H	17.0	18.3	17.4	18.6	19.0		16.9	18.2	17.3	18.6	19.0
	6H	17.5	18.7	17.9	19.0	19.4		17.4	18.6	17.8	19.0	19.3
	8H	17.7	18.8	18.1	19.2	19.6		17.6	18.7	18.0	19.1	19.5
	12H	17.8	18.9	18.2	19.3	19.7		17.7	18.8	18.1	19.2	19.6

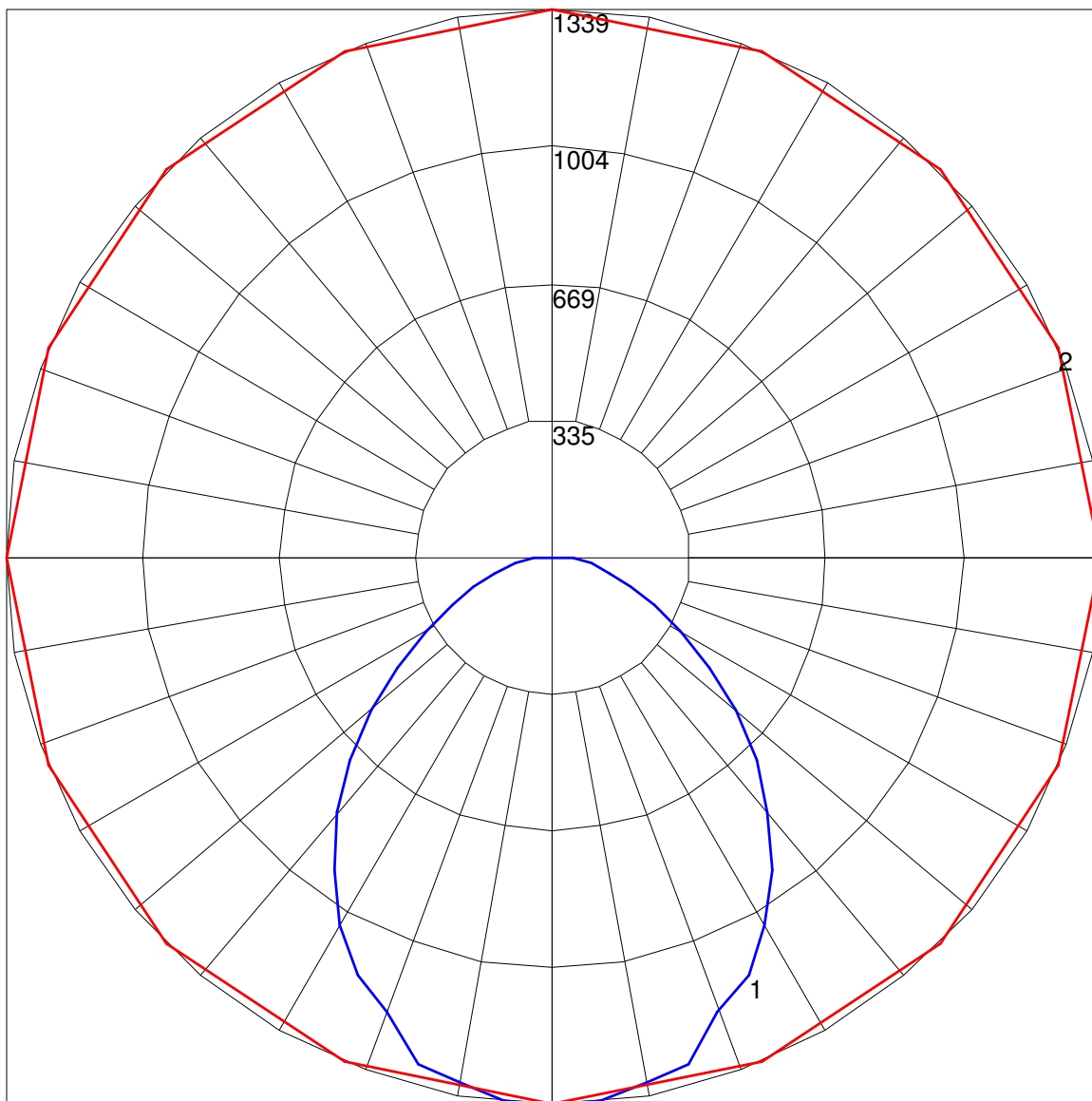
4H	2H	15.4	16.7	15.8	17.1	17.5	15.4	16.7	15.8	17.1	17.5
	3H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	4H	17.8	18.8	18.2	19.2	19.6	17.8	18.7	18.2	19.1	19.6
	6H	18.5	19.3	18.9	19.7	20.2	18.4	19.2	18.8	19.6	20.1
	8H	18.7	19.5	19.2	19.9	20.4	18.6	19.4	19.1	19.8	20.3
	12H	18.9	19.6	19.4	20.1	20.6	18.8	19.5	19.3	20.0	20.4

8H	4H	18.1	18.9	18.5	19.3	19.8	18.0	18.8	18.5	19.3	19.7
	6H	18.9	19.5	19.4	20.0	20.5	18.8	19.4	19.3	19.9	20.4
	8H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	12H	19.5	20.1	20.1	20.6	21.1	19.4	19.9	19.9	20.4	20.9

12H	4H	18.1	18.8	18.6	19.3	19.8	18.1	18.8	18.5	19.2	19.7
	6H	18.9	19.5	19.5	20.0	20.5	18.8	19.4	19.4	19.9	20.4
	8H	19.4	19.9	19.9	20.4	20.9	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 1338.764 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.)