



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-FAF12125-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
 [ISSUEDATE] 07-28-2020
 [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-EM10W-DIM-UNV(EMER MODE)
 [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	1290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	1431	1461	1521
55	1179	1189	1224
65	938	918	958
75	821	792	789
85	810	746	762

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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	562.909	562.909	562.909	562.909	562.909
5	562.093	561.685	560.462	559.238	558.830
10	550.672	551.080	551.080	550.060	551.896
15	540.678	541.494	544.349	543.942	546.797
20	498.868	503.763	505.598	507.842	512.533
25	475.210	481.328	484.183	487.651	494.177
30	438.090	442.169	448.492	451.755	460.933
35	392.201	394.852	402.806	410.149	418.715
40	344.272	345.700	352.838	360.180	369.358
45	295.119	294.915	301.238	304.705	313.679
50	245.355	245.559	250.250	249.230	258.612
55	197.222	197.630	198.854	198.038	204.768
60	152.353	151.945	151.945	149.905	156.228
65	115.641	113.806	113.194	112.582	118.089
70	86.272	84.436	83.213	83.417	85.048
75	62.002	60.778	59.758	59.146	59.554
80	40.587	40.383	39.771	38.343	38.547
85	20.599	21.415	18.968	18.968	19.375
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	204.56	N.A.	15.90
0-30	426.41	N.A.	33.10
0-40	678.10	N.A.	52.60
0-60	1089.22	N.A.	84.40
0-80	1268.5	N.A.	98.30
0-90	1290.06	N.A.	100.00
10-90	1236.87	N.A.	95.90
20-40	473.55	N.A.	36.70
20-50	706.11	N.A.	54.70
40-70	526.02	N.A.	40.80
60-80	179.28	N.A.	13.90
70-80	64.38	N.A.	5.00
80-90	21.56	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	1290.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.19
10-20	151.37
20-30	221.85
30-40	251.69
40-50	232.57
50-60	178.55
60-70	114.91
70-80	64.38
80-90	21.56
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	12.0	13.5	12.4	13.8	14.2	12.0	13.5	12.4	13.8	14.2
	3H	13.4	14.8	13.8	15.1	15.5	13.4	14.8	13.8	15.1	15.5
	4H	14.0	15.3	14.4	15.6	16.0	13.9	15.2	14.3	15.6	16.0
	6H	14.5	15.7	14.9	16.0	16.4	14.4	15.6	14.8	16.0	16.4
	8H	14.7	15.8	15.1	16.2	16.6	14.6	15.7	15.0	16.1	16.5
	12H	14.8	15.9	15.3	16.3	16.7	14.7	15.8	15.1	16.2	16.6

UGR Viewed Endwise

4H	2H	12.4	13.7	12.8	14.1	14.5	12.4	13.7	12.8	14.1	14.5
	3H	14.1	15.2	14.5	15.6	16.0	14.1	15.2	14.5	15.6	16.0
	4H	14.8	15.8	15.2	16.2	16.6	14.8	15.7	15.2	16.1	16.6
	6H	15.5	16.3	15.9	16.8	17.2	15.4	16.2	15.8	16.6	17.1
	8H	15.7	16.5	16.2	17.0	17.4	15.6	16.4	16.1	16.8	17.3
	12H	15.9	16.6	16.4	17.1	17.6	15.8	16.5	16.3	17.0	17.4

8H	4H	15.1	15.9	15.5	16.3	16.8	15.0	15.8	15.5	16.3	16.7
	6H	15.9	16.5	16.4	17.0	17.5	15.8	16.4	16.3	16.9	17.4
	8H	16.2	16.8	16.7	17.3	17.8	16.1	16.7	16.6	17.2	17.7
	12H	16.6	17.1	17.1	17.6	18.1	16.4	16.9	16.9	17.4	17.9

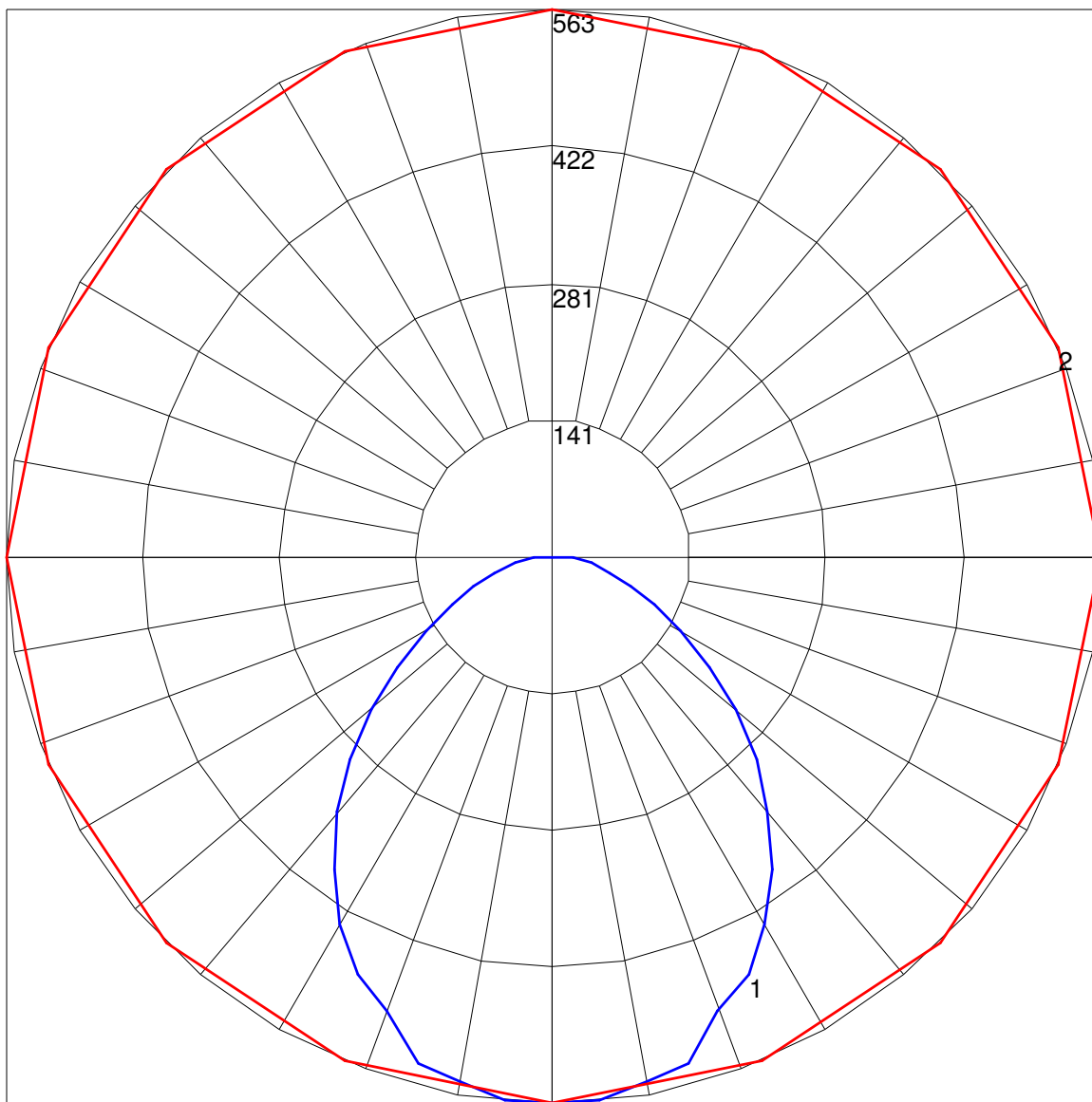
12H	4H	15.1	15.8	15.6	16.3	16.8	15.1	15.8	15.6	16.3	16.7
	6H	15.9	16.5	16.5	17.0	17.5	15.8	16.4	16.4	16.9	17.4
	8H	16.4	16.9	16.9	17.4	17.9	16.2	16.7	16.7	17.2	17.8

Maximum UGR = 18.1

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POLAR GRAPH



Maximum Candela = 562.909 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.)