



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-840-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]04-07-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2'RECESSED LED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S22-L43-840-SAF12125-EM10W-DIM-UNV_(EMER MODE)
 [LAMPCAT] HLM 80 CRI 4000K 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	1330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	1475	1506	1568
55	1215	1226	1262
65	967	947	988
75	847	816	813
85	835	769	786

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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	580.364	580.364	580.364	580.364	580.364
5	579.523	579.102	577.840	576.579	576.158
10	567.747	568.168	568.168	567.116	569.009
15	557.444	558.285	561.228	560.808	563.752
20	514.337	519.383	521.276	523.589	528.425
25	489.945	496.253	499.197	502.772	509.500
30	451.674	455.880	462.398	465.763	475.225
35	404.362	407.096	415.296	422.866	431.698
40	354.947	356.419	363.779	371.349	380.811
45	304.270	304.060	310.579	314.153	323.406
50	252.963	253.173	258.010	256.958	266.631
55	203.338	203.758	205.020	204.179	211.118
60	157.077	156.656	156.656	154.553	161.072
65	119.227	117.334	116.704	116.073	121.750
70	88.947	87.055	85.793	86.003	87.685
75	63.924	62.662	61.611	60.980	61.401
80	41.845	41.635	41.004	39.532	39.742
85	21.238	22.079	19.556	19.556	19.976
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	210.90	N.A.	15.90
0-30	439.63	N.A.	33.10
0-40	699.13	N.A.	52.60
0-60	1122.99	N.A.	84.40
0-80	1307.83	N.A.	98.30
0-90	1330.06	N.A.	100.00
10-90	1275.23	N.A.	95.90
20-40	488.23	N.A.	36.70
20-50	728.01	N.A.	54.70
40-70	542.33	N.A.	40.80
60-80	184.84	N.A.	13.90
70-80	66.37	N.A.	5.00
80-90	22.23	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	1330.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.83
10-20	156.07
20-30	228.73
30-40	259.50
40-50	239.78
50-60	184.09
60-70	118.47
70-80	66.37
80-90	22.23
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	12.1	13.6	12.5	13.9	14.2	12.1	13.6	12.5	13.9	14.3
	3H	13.5	14.9	13.9	15.2	15.6	13.5	14.9	13.9	15.2	15.6
	4H	14.1	15.4	14.5	15.7	16.1	14.0	15.3	14.4	15.7	16.1
	6H	14.6	15.8	15.0	16.1	16.5	14.5	15.7	14.9	16.1	16.4
	8H	14.8	15.9	15.2	16.3	16.7	14.7	15.8	15.1	16.2	16.6
	12H	14.9	16.0	15.3	16.4	16.8	14.8	15.9	15.2	16.3	16.7

UGR Viewed Endwise

4H	2H	12.5	13.8	12.9	14.2	14.6	12.5	13.8	12.9	14.2	14.6
	3H	14.2	15.3	14.6	15.7	16.1	14.2	15.3	14.6	15.7	16.1
	4H	14.9	15.9	15.3	16.3	16.7	14.8	15.8	15.3	16.2	16.7
	6H	15.6	16.4	16.0	16.8	17.3	15.5	16.3	15.9	16.7	17.2
	8H	15.8	16.6	16.3	17.0	17.5	15.7	16.5	16.2	16.9	17.4
	12H	16.0	16.7	16.5	17.2	17.7	15.9	16.6	16.4	17.1	17.5

8H	4H	15.2	16.0	15.6	16.4	16.9	15.1	15.9	15.6	16.4	16.8
	6H	16.0	16.6	16.5	17.1	17.6	15.9	16.5	16.4	17.0	17.5
	8H	16.3	16.9	16.8	17.4	17.9	16.2	16.8	16.7	17.3	17.8
	12H	16.6	17.2	17.1	17.6	18.2	16.4	17.0	17.0	17.5	18.0

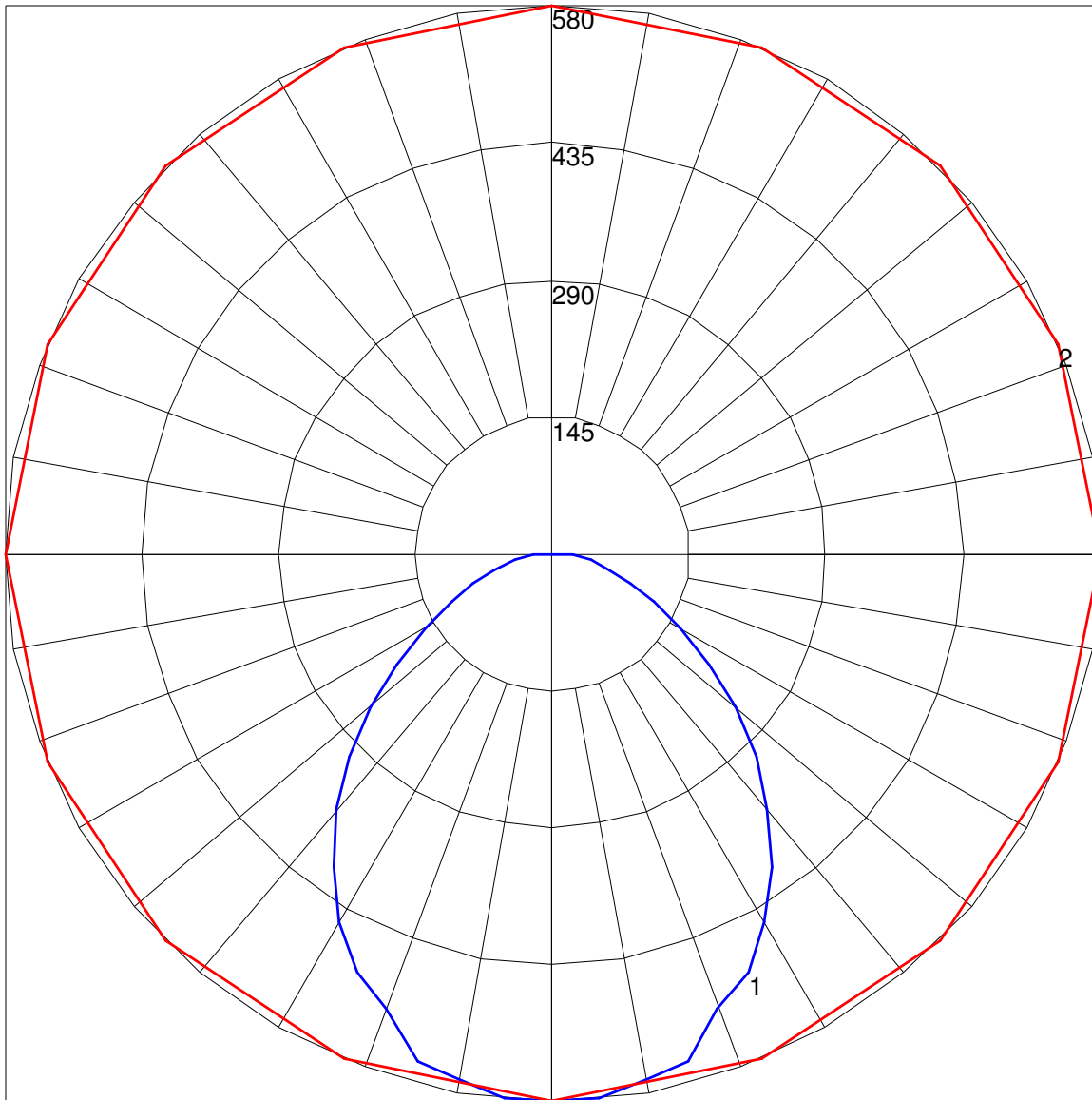
12H	4H	15.2	15.9	15.7	16.4	16.9	15.2	15.9	15.6	16.3	16.8
	6H	16.0	16.6	16.5	17.1	17.6	15.9	16.5	16.5	17.0	17.5
	8H	16.4	17.0	16.9	17.5	18.0	16.3	16.8	16.8	17.3	17.9

Maximum UGR = 18.2

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POLAR GRAPH



Maximum Candela = 580.364 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.)