



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-FAF12125-(L33)-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] 07-21-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S22-L43-835-FAF12125-(L33)-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	3373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	29.3
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	3742	3819	3977
55	3083	3108	3201
65	2453	2401	2505
75	2148	2070	2063
85	2119	1951	1993

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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	1471.854	1471.854	1471.854	1471.854	1471.854
5	1469.721	1468.655	1465.455	1462.255	1461.189
10	1439.858	1440.924	1440.924	1438.258	1443.057
15	1413.727	1415.860	1423.326	1422.259	1429.725
20	1304.404	1317.203	1322.003	1327.869	1340.134
25	1242.544	1258.542	1266.008	1275.074	1292.139
30	1145.487	1156.152	1172.684	1181.217	1205.214
35	1025.499	1032.431	1053.229	1072.427	1094.825
40	900.178	903.911	922.575	941.774	965.771
45	771.657	771.124	787.655	796.721	820.186
50	641.537	642.070	654.335	651.669	676.200
55	515.682	516.749	519.949	517.815	535.414
60	398.361	397.294	397.294	391.961	408.493
65	302.370	297.571	295.971	294.371	308.769
70	225.578	220.778	217.578	218.112	222.378
75	162.117	158.918	156.251	154.651	155.718
80	106.123	105.590	103.990	100.257	100.790
85	53.861	55.994	49.595	49.595	50.662
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	534.86	N.A.	15.90
0-30	1114.95	N.A.	33.10
0-40	1773.06	N.A.	52.60
0-60	2848.01	N.A.	84.40
0-80	3316.79	N.A.	98.30
0-90	3373.15	N.A.	100.00
10-90	3234.09	N.A.	95.90
20-40	1238.2	N.A.	36.70
20-50	1846.29	N.A.	54.70
40-70	1375.4	N.A.	40.80
60-80	468.77	N.A.	13.90
70-80	168.32	N.A.	5.00
80-90	56.37	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	3373.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.07
10-20	395.80
20-30	580.09
30-40	658.11
40-50	608.10
50-60	466.86
60-70	300.45
70-80	168.32
80-90	56.37
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	15.3	16.8	15.7	17.1	17.4	UGR Viewed Endwise	15.3	16.8	15.7	17.1	17.5
	3H	16.7	18.1	17.1	18.4	18.8		16.7	18.1	17.1	18.4	18.8
	4H	17.3	18.6	17.7	18.9	19.3		17.2	18.5	17.6	18.9	19.3
	6H	17.8	19.0	18.2	19.3	19.7		17.7	18.9	18.1	19.3	19.6
	8H	18.0	19.1	18.4	19.5	19.9		17.9	19.0	18.3	19.4	19.8
	12H	18.1	19.2	18.5	19.6	20.0		18.0	19.1	18.4	19.5	19.9

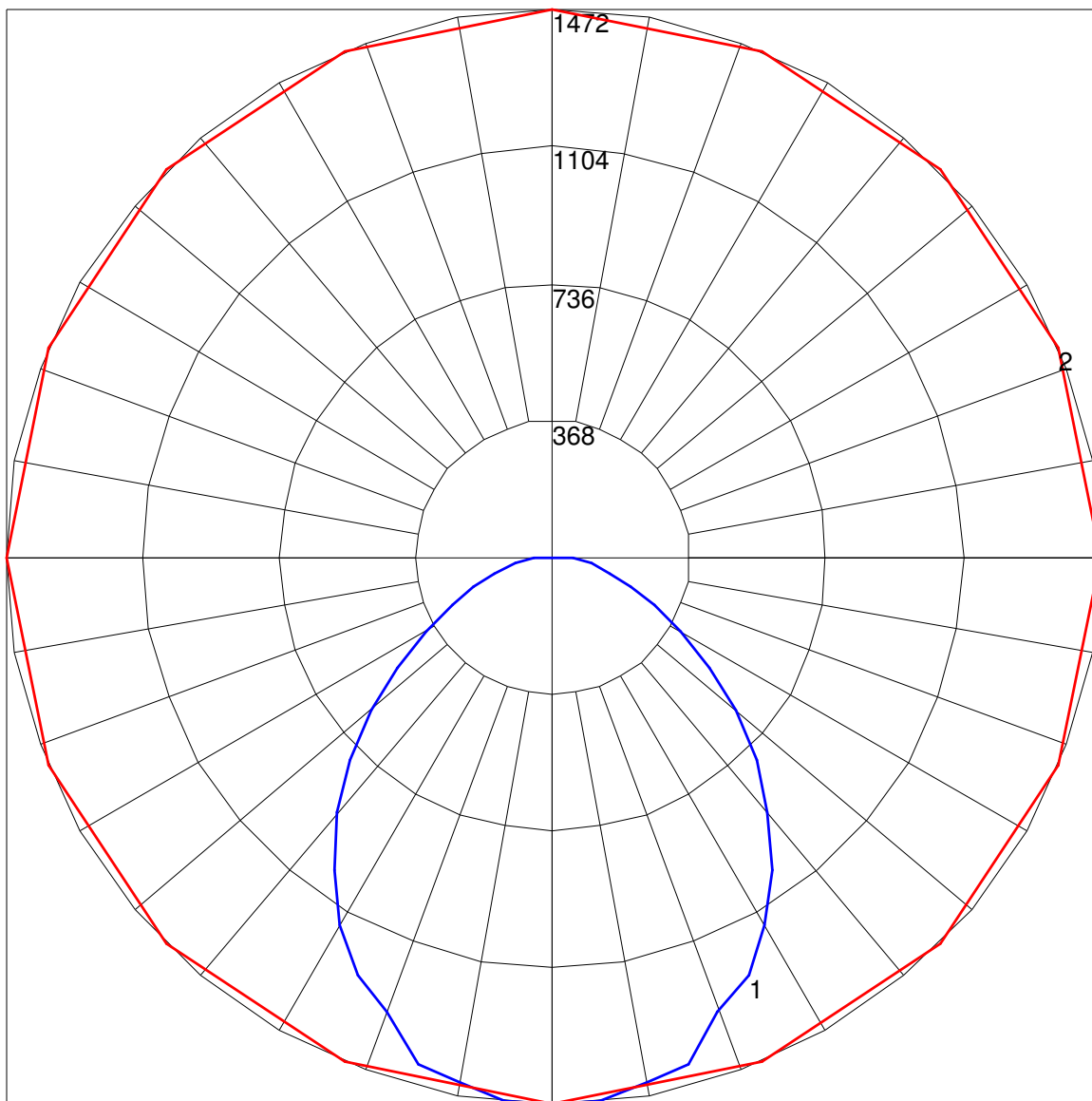
4H	2H	15.7	17.0	16.1	17.4	17.8	15.7	17.0	16.1	17.4	17.8
	3H	17.4	18.5	17.8	18.9	19.3	17.4	18.5	17.8	18.9	19.3
	4H	18.1	19.1	18.5	19.5	19.9	18.1	19.0	18.5	19.4	19.9
	6H	18.8	19.6	19.2	20.0	20.5	18.7	19.5	19.1	19.9	20.4
	8H	19.0	19.8	19.5	20.3	20.7	18.9	19.7	19.4	20.1	20.6
	12H	19.2	19.9	19.7	20.4	20.9	19.1	19.8	19.6	20.3	20.7

8H	4H	18.4	19.2	18.8	19.6	20.1	18.3	19.1	18.8	19.6	20.0
	6H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	8H	19.5	20.1	20.0	20.6	21.1	19.4	20.0	19.9	20.5	21.0
	12H	19.8	20.4	20.4	20.9	21.4	19.7	20.2	20.2	20.7	21.2

12H	4H	18.4	19.1	18.9	19.6	20.1	18.4	19.1	18.8	19.5	20.0
	6H	19.2	19.8	19.8	20.3	20.8	19.1	19.7	19.7	20.2	20.7
	8H	19.7	20.2	20.2	20.7	21.2	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1471.854 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.)