



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L90-935-FAF12125-(L70)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18022.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 04-07-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S24-L90-935-FAF12125-(L70)-DIM-UNV
 [LAMPCAT] HLM 90 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	5965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	55.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 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	3262	3222	3170
55	2675	2577	2502
65	2151	2041	1991
75	1732	1668	1743
85	1770	1754	2013

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2683.052	2683.052	2683.052	2683.052	2683.052
5	2641.921	2641.017	2638.305	2638.305	2638.305
10	2599.885	2598.077	2598.077	2599.885	2599.885
15	2490.954	2490.954	2491.858	2495.022	2495.022
20	2403.719	2402.815	2404.623	2407.334	2407.334
25	2197.608	2196.704	2198.512	2203.484	2205.292
30	2037.601	2036.697	2036.697	2037.601	2040.313
35	1826.067	1825.163	1823.355	1822.451	1825.163
40	1627.640	1621.312	1619.504	1610.916	1609.108
45	1432.378	1422.886	1414.750	1395.766	1392.150
50	1168.864	1158.468	1144.456	1121.404	1116.432
55	952.809	938.797	918.005	896.761	891.338
60	734.947	726.359	701.951	685.227	678.899
65	564.544	555.052	535.616	525.220	522.508
70	411.769	404.989	390.073	392.785	394.141
75	278.430	275.718	268.034	274.814	280.238
80	188.935	186.223	184.415	194.811	199.331
85	95.823	94.919	94.919	106.219	108.931
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S24-L90-935-FAF12125-(L70)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	956.70	N.A.	16.00
0-30	1975.96	N.A.	33.10
0-40	3118.83	N.A.	52.30
0-60	5019.01	N.A.	84.10
0-80	5859.01	N.A.	98.20
0-90	5964.94	N.A.	100.00
10-90	5713.92	N.A.	95.80
20-40	2162.12	N.A.	36.20
20-50	3238.86	N.A.	54.30
40-70	2440.23	N.A.	40.90
60-80	840.00	N.A.	14.10
70-80	299.95	N.A.	5.00
80-90	105.94	N.A.	1.80
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	5964.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.02
10-20	705.68
20-30	1019.25
30-40	1142.87
40-50	1076.74
50-60	823.44
60-70	540.05
70-80	299.95
80-90	105.94
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	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	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	45	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	14.9	16.4	15.2	16.7	17.0	14.5	16.0	14.8	16.3	16.7
	3H	16.3	17.7	16.7	18.0	18.4	16.0	17.3	16.3	17.7	18.0
	4H	16.8	18.1	17.2	18.5	18.9	16.5	17.8	16.9	18.2	18.6
	6H	17.3	18.5	17.7	18.9	19.3	17.1	18.3	17.5	18.6	19.0
	8H	17.5	18.6	17.9	19.0	19.4	17.3	18.4	17.7	18.8	19.2
	12H	17.6	18.7	18.1	19.1	19.5	17.5	18.6	17.9	19.0	19.4

UGR Viewed Endwise

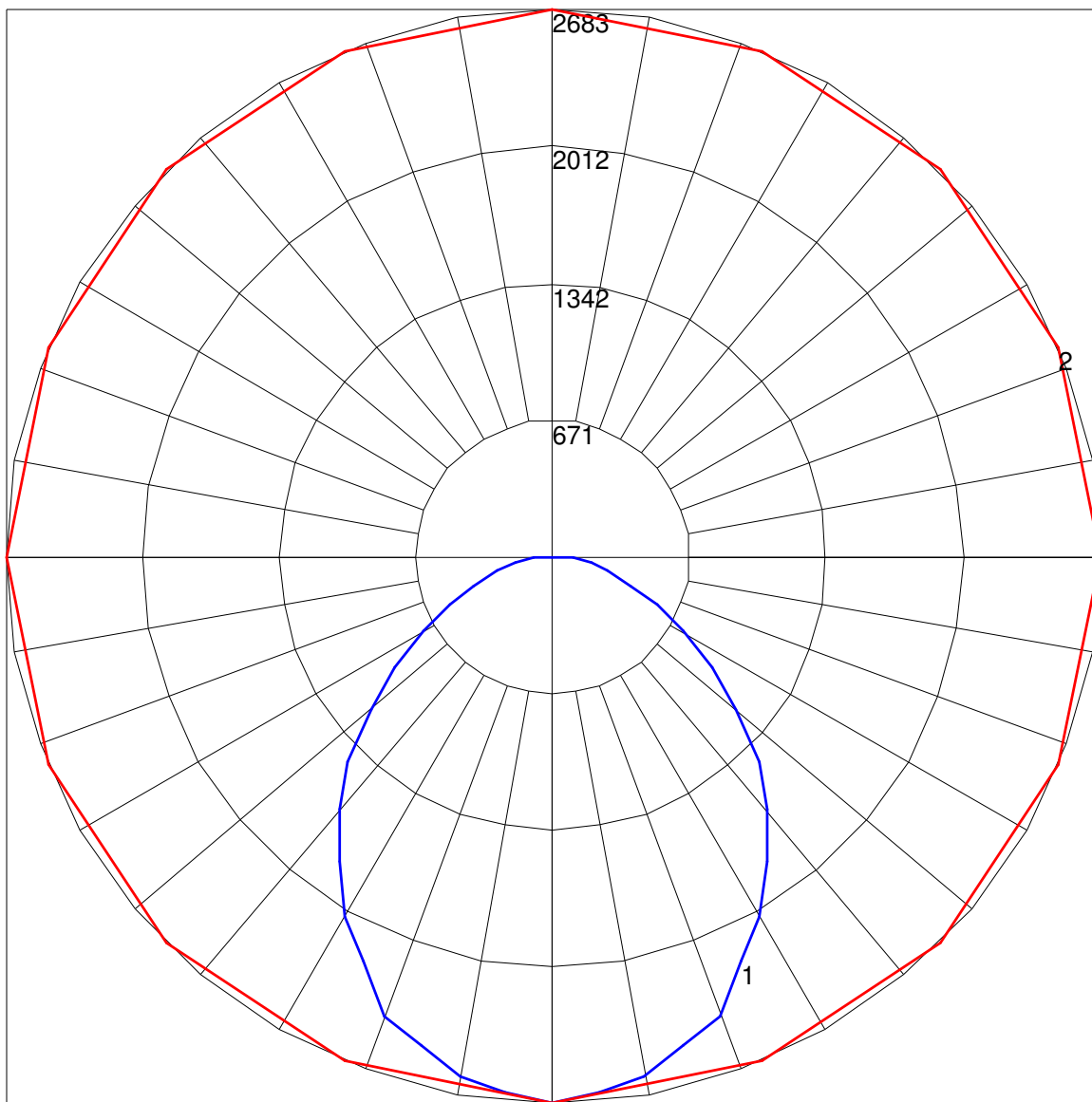
4H	2H	15.3	16.6	15.7	17.0	17.3	15.0	16.3	15.4	16.7	17.0
	3H	17.0	18.1	17.4	18.5	18.9	16.7	17.8	17.1	18.2	18.6
	4H	17.6	18.6	18.1	19.0	19.5	17.4	18.4	17.8	18.8	19.2
	6H	18.3	19.1	18.7	19.5	20.0	18.1	18.9	18.6	19.4	19.9
	8H	18.5	19.3	19.0	19.7	20.2	18.4	19.2	18.9	19.6	20.1
	12H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.2	19.9	20.3

8H	4H	17.9	18.7	18.4	19.1	19.6	17.7	18.5	18.1	18.9	19.4
	6H	18.6	19.3	19.1	19.8	20.3	18.5	19.2	19.0	19.7	20.1
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.3	19.8	19.8	20.3	20.9	19.3	19.8	19.8	20.3	20.9

12H	4H	17.9	18.6	18.4	19.1	19.6	17.7	18.4	18.2	18.9	19.4
	6H	18.7	19.3	19.2	19.8	20.3	18.6	19.2	19.1	19.7	20.2
	8H	19.1	19.6	19.6	20.1	20.7	19.0	19.6	19.6	20.1	20.6

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 2683.052 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.)