



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L33-940-FAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18125.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-24-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S24-L33-940-FAF12125-DIM-UNV
 [LAMPCAT]HLM 90 CRI, 4000K 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	3084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
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	1673	1649	1626
55	1380	1334	1293
65	1110	1043	1030
75	899	862	909
85	898	898	1060

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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	1388.719	1388.719	1388.719	1388.719	1388.719
5	1375.049	1374.152	1373.032	1372.360	1372.360
10	1350.174	1348.606	1349.726	1350.174	1350.174
15	1295.047	1295.047	1295.047	1296.615	1297.288
20	1246.866	1246.866	1248.435	1250.676	1248.435
25	1141.766	1140.645	1144.007	1146.023	1145.575
30	1051.903	1050.783	1053.024	1053.024	1055.265
35	946.354	945.906	944.113	943.665	947.923
40	837.444	835.427	830.945	827.360	830.497
45	734.584	731.895	724.276	717.777	714.192
50	604.161	598.783	592.732	582.648	576.597
55	491.665	483.374	475.306	462.981	460.740
60	380.514	374.015	363.707	354.071	352.950
65	291.324	285.946	273.844	270.259	270.259
70	212.218	209.081	198.773	202.582	203.030
75	144.541	142.301	138.491	143.421	146.110
80	97.481	95.913	95.913	100.171	103.308
85	48.629	47.060	48.629	55.127	57.368
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	497.02	N.A.	16.10
0-30	1025.83	N.A.	33.30
0-40	1616.52	N.A.	52.40
0-60	2596.23	N.A.	84.20
0-80	3029.51	N.A.	98.20
0-90	3083.96	N.A.	100.00
10-90	2953.54	N.A.	95.80
20-40	1119.5	N.A.	36.30
20-50	1673.56	N.A.	54.30
40-70	1257.97	N.A.	40.80
60-80	433.28	N.A.	14.00
70-80	155.02	N.A.	5.00
80-90	54.45	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	3083.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.43
10-20	366.59
20-30	528.81
30-40	590.69
40-50	554.06
50-60	425.65
60-70	278.26
70-80	155.02
80-90	54.45
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	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	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	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	55	43	35	30	42	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	12.6	14.1	12.9	14.4	14.7	UGR Viewed Endwise			
	3H	14.0	15.4	14.4	15.7	16.1	12.2	13.7	12.6	14.0
	4H	14.5	15.8	14.9	16.2	16.6	13.6	15.0	14.0	15.4
	6H	15.0	16.2	15.4	16.6	17.0	14.2	15.5	14.6	15.9
	8H	15.2	16.3	15.6	16.7	17.1	14.8	16.0	15.2	16.3
	12H	15.3	16.4	15.7	16.8	17.2	15.0	16.2	15.4	16.5

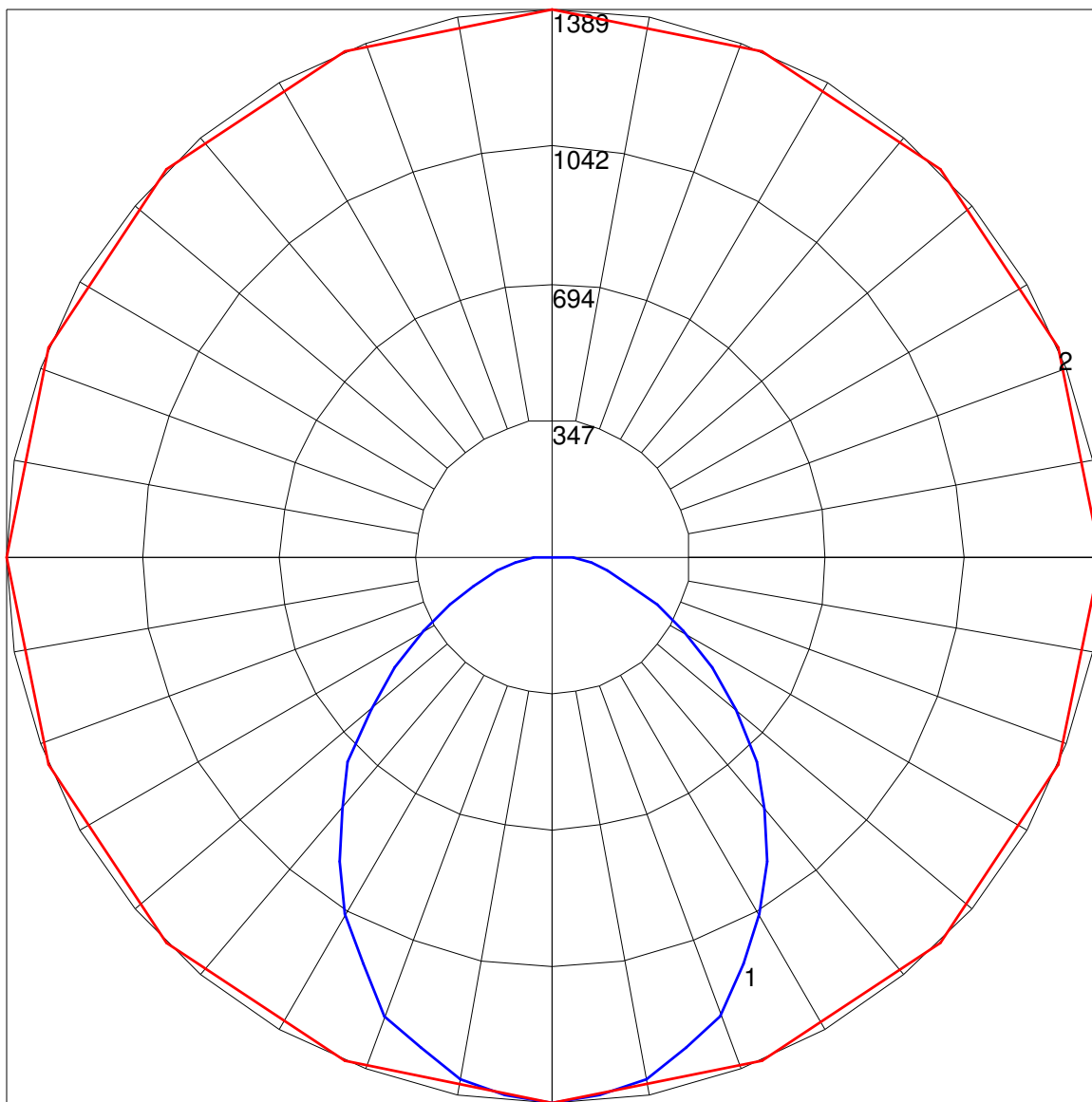
4H	2H	13.0	14.3	13.4	14.6	15.0	15.2	16.3	15.6	16.7
	3H	14.6	15.7	15.1	16.1	16.5	12.7	14.0	13.1	14.3
	4H	15.3	16.3	15.7	16.7	17.1	14.4	15.5	14.8	15.9
	6H	15.9	16.8	16.4	17.2	17.7	15.1	16.1	15.5	16.5
	8H	16.2	17.0	16.6	17.4	17.9	15.8	16.6	16.3	17.1
	12H	16.4	17.1	16.9	17.6	18.0	16.1	16.9	16.6	17.3

8H	4H	15.6	16.4	16.0	16.8	17.3	16.4	17.1	16.9	17.6
	6H	16.3	17.0	16.8	17.5	17.9	15.4	16.2	15.8	16.6
	8H	16.6	17.2	17.2	17.8	18.2	16.2	16.9	16.7	17.4
	12H	16.9	17.5	17.4	18.0	18.5	16.6	17.2	17.1	17.7

12H	4H	15.6	16.3	16.1	16.8	17.3	17.0	17.5	17.5	18.0
	6H	16.4	17.0	16.9	17.5	18.0	15.4	16.1	15.9	16.6
	8H	16.8	17.3	17.3	17.8	18.4	16.3	16.9	16.8	17.4

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 1388.719 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.)