



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L33-840-SAF12125-EM10W-DIM-UNV_(EMER MODE).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] 08-09-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S24-L33-840-SAF12125-EMBSL10LST-DIM-UNV
 [LAMPCAT] HLM 80 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	1430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	10
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	776	765	754
55	640	619	600
65	515	484	477
75	417	400	421
85	417	417	491

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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	643.926	643.926	643.926	643.926	643.926
5	637.587	637.172	636.652	636.341	636.341
10	626.054	625.326	625.846	626.054	626.054
15	600.492	600.492	600.492	601.219	601.531
20	578.151	578.151	578.879	579.918	578.879
25	529.418	528.898	530.457	531.392	531.184
30	487.750	487.231	488.270	488.270	489.309
35	438.809	438.601	437.770	437.562	439.536
40	388.309	387.374	385.296	383.633	385.088
45	340.615	339.368	335.835	332.821	331.159
50	280.139	277.646	274.840	270.164	267.359
55	227.977	224.132	220.392	214.677	213.638
60	176.438	173.425	168.645	164.177	163.657
65	135.082	132.588	126.977	125.315	125.315
70	98.402	96.947	92.168	93.934	94.142
75	67.021	65.982	64.216	66.502	67.749
80	45.201	44.473	44.473	46.447	47.902
85	22.548	21.821	22.548	25.562	26.601
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	230.46	N.A.	16.10
0-30	475.66	N.A.	33.30
0-40	749.55	N.A.	52.40
0-60	1203.83	N.A.	84.20
0-80	1404.73	N.A.	98.20
0-90	1429.98	N.A.	100.00
10-90	1369.51	N.A.	95.80
20-40	519.09	N.A.	36.30
20-50	776.00	N.A.	54.30
40-70	583.30	N.A.	40.80
60-80	200.90	N.A.	14.00
70-80	71.88	N.A.	5.00
80-90	25.25	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	1429.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.48
10-20	169.98
20-30	245.20
30-40	273.89
40-50	256.91
50-60	197.37
60-70	129.02
70-80	71.88
80-90	25.25
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	9.9	11.4	10.2	11.7	12.0	9.5	11.0	9.9	11.3	11.7
	3H	11.3	12.7	11.7	13.0	13.4	10.9	12.3	11.3	12.7	13.0
	4H	11.8	13.1	12.2	13.5	13.9	11.5	12.8	11.9	13.2	13.6
	6H	12.3	13.5	12.7	13.9	14.3	12.1	13.3	12.5	13.6	14.0
	8H	12.5	13.6	12.9	14.0	14.4	12.3	13.5	12.7	13.8	14.2
	12H	12.6	13.7	13.0	14.1	14.5	12.5	13.6	12.9	14.0	14.4

UGR Viewed Endwise

4H	2H	10.3	11.6	10.7	11.9	12.3	10.0	11.3	10.4	11.6	12.0
	3H	11.9	13.0	12.4	13.4	13.8	11.7	12.8	12.1	13.2	13.6
	4H	12.6	13.6	13.0	14.0	14.4	12.4	13.4	12.8	13.8	14.2
	6H	13.2	14.1	13.7	14.5	15.0	13.1	13.9	13.6	14.4	14.8
	8H	13.5	14.3	13.9	14.7	15.2	13.4	14.2	13.9	14.6	15.1
	12H	13.7	14.4	14.2	14.9	15.3	13.7	14.4	14.2	14.9	15.3

8H	4H	12.9	13.7	13.3	14.1	14.6	12.7	13.5	13.1	13.9	14.4
	6H	13.6	14.3	14.1	14.8	15.2	13.5	14.2	14.0	14.7	15.1
	8H	13.9	14.5	14.5	15.1	15.5	13.9	14.5	14.4	15.0	15.5
	12H	14.2	14.8	14.7	15.3	15.8	14.3	14.8	14.8	15.3	15.9

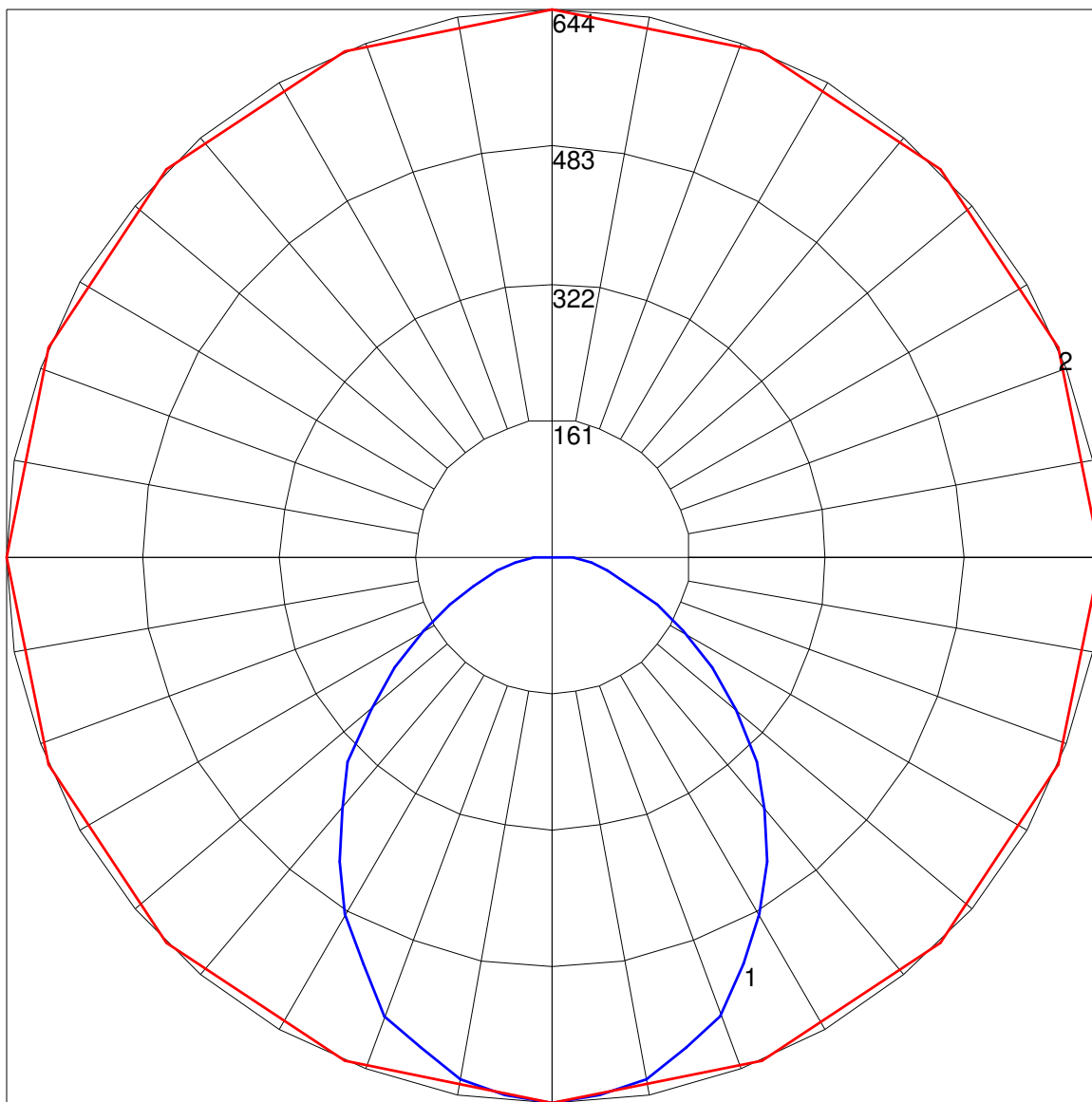
12H	4H	12.9	13.6	13.4	14.1	14.6	12.7	13.4	13.2	13.9	14.4
	6H	13.7	14.3	14.2	14.8	15.3	13.6	14.2	14.1	14.7	15.2
	8H	14.1	14.6	14.6	15.1	15.7	14.0	14.6	14.6	15.1	15.6

Maximum UGR = 15.9

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POLAR GRAPH



Maximum Candela = 643.926 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.)