



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-835-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
 [ISSUE DATE] 02-16-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE]2x4'RECESSED LED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S24-L59-835-SAF12125-EM10W-DIM-UNV_(EMER MODE)
 [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	1300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	705	695	686
55	582	562	545
65	468	440	434
75	379	363	383
85	379	379	447

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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	585.387	585.387	585.387	585.387	585.387
5	579.625	579.247	578.775	578.491	578.491
10	569.140	568.478	568.951	569.140	569.140
15	545.902	545.902	545.902	546.563	546.846
20	525.592	525.592	526.253	527.198	526.253
25	481.289	480.817	482.234	483.084	482.895
30	443.409	442.937	443.882	443.882	444.826
35	398.917	398.728	397.973	397.784	399.579
40	353.008	352.158	350.269	348.757	350.080
45	309.650	308.516	305.304	302.565	301.054
50	254.672	252.405	249.855	245.604	243.053
55	207.252	203.757	200.356	195.161	194.216
60	160.398	157.659	153.313	149.252	148.779
65	122.802	120.535	115.434	113.922	113.922
70	89.456	88.134	83.789	85.395	85.583
75	60.929	59.984	58.378	60.456	61.590
80	41.091	40.430	40.430	42.225	43.547
85	20.498	19.837	20.498	23.238	24.183
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	209.51	N.A.	16.10
0-30	432.42	N.A.	33.30
0-40	681.41	N.A.	52.40
0-60	1094.39	N.A.	84.20
0-80	1277.03	N.A.	98.20
0-90	1299.98	N.A.	100.00
10-90	1245.01	N.A.	95.80
20-40	471.90	N.A.	36.30
20-50	705.46	N.A.	54.30
40-70	530.27	N.A.	40.80
60-80	182.64	N.A.	14.00
70-80	65.35	N.A.	5.00
80-90	22.95	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	1299.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.98
10-20	154.53
20-30	222.91
30-40	248.99
40-50	233.55
50-60	179.43
60-70	117.29
70-80	65.35
80-90	22.95
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	9.6	11.1	9.9	11.4	11.7
	3H	11.0	12.4	11.4	12.7	13.1
	4H	11.5	12.8	11.9	13.2	13.6
	6H	12.0	13.2	12.4	13.6	14.0
	8H	12.2	13.3	12.6	13.7	14.1
	12H	12.3	13.4	12.7	13.8	14.2

UGR Viewed Endwise

9.2	10.7	9.6	11.0	11.4
10.6	12.0	11.0	12.4	12.7
11.2	12.5	11.6	12.9	13.3
11.8	13.0	12.2	13.3	13.7
12.0	13.2	12.4	13.5	13.9
12.2	13.3	12.6	13.7	14.1

4H	2H	10.0	11.3	10.4	11.6	12.0	9.7	11.0	10.1	11.3	11.7
	3H	11.6	12.7	12.1	13.1	13.5	11.4	12.5	11.8	12.9	13.3
	4H	12.3	13.3	12.7	13.7	14.1	12.1	13.1	12.5	13.5	13.9
	6H	12.9	13.8	13.4	14.2	14.7	12.8	13.6	13.3	14.1	14.5
	8H	13.2	14.0	13.6	14.4	14.9	13.1	13.9	13.6	14.3	14.8
	12H	13.4	14.1	13.9	14.6	15.0	13.4	14.1	13.9	14.6	15.0

8H	4H	12.6	13.4	13.0	13.8	14.3	12.4	13.2	12.8	13.6	14.1
	6H	13.3	14.0	13.8	14.5	14.9	13.2	13.9	13.7	14.4	14.8
	8H	13.6	14.2	14.2	14.8	15.2	13.6	14.2	14.1	14.7	15.2
	12H	13.9	14.5	14.4	15.0	15.5	14.0	14.5	14.5	15.0	15.6

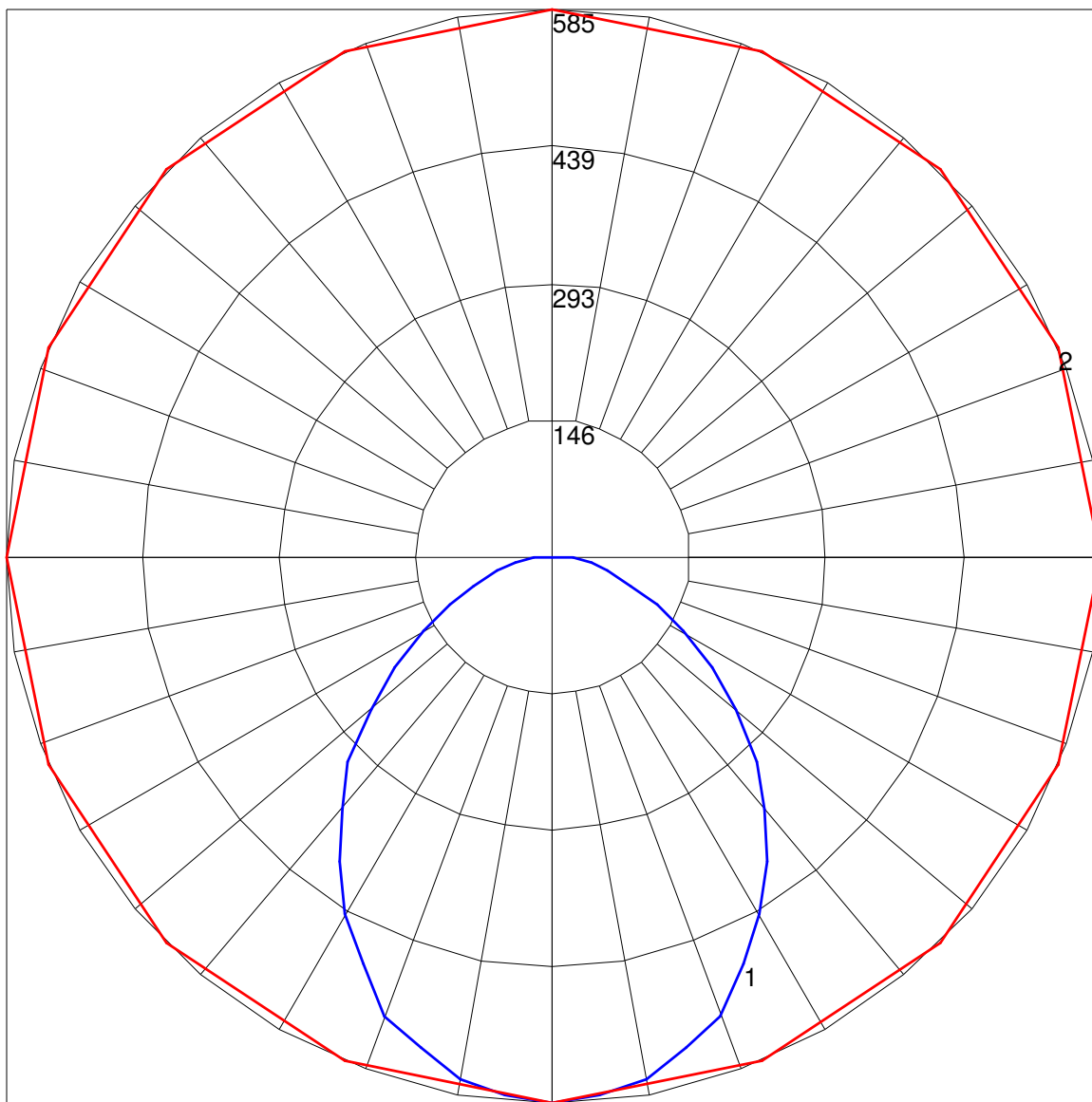
12H	4H	12.6	13.3	13.1	13.8	14.3	12.4	13.1	12.9	13.6	14.1
	6H	13.4	14.0	13.9	14.5	15.0	13.3	13.9	13.8	14.4	14.9
	8H	13.8	14.3	14.3	14.8	15.4	13.7	14.3	14.3	14.8	15.3

Maximum UGR = 15.6

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POLAR GRAPH



Maximum Candela = 585.387 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.)