



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] 02-24-2021
 [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_SOURCE TYPE]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	1313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	712	702	693
55	588	568	551
65	473	444	439
75	383	367	387
85	383	383	451

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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	591.421	591.421	591.421	591.421	591.421
5	585.600	585.218	584.741	584.454	584.454
10	575.006	574.338	574.815	575.006	575.006
15	551.529	551.529	551.529	552.197	552.483
20	531.010	531.010	531.678	532.632	531.678
25	486.250	485.773	487.204	488.063	487.872
30	447.980	447.503	448.457	448.457	449.411
35	403.029	402.838	402.075	401.884	403.697
40	356.647	355.788	353.879	352.352	353.688
45	312.842	311.696	308.451	305.684	304.157
50	257.297	255.007	252.430	248.135	245.559
55	209.388	205.857	202.421	197.172	196.218
60	162.052	159.284	154.894	150.790	150.313
65	124.068	121.777	116.624	115.097	115.097
70	90.379	89.042	84.652	86.275	86.466
75	61.557	60.602	58.980	61.079	62.225
80	41.515	40.847	40.847	42.660	43.996
85	20.710	20.042	20.710	23.477	24.432
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	211.67	N.A.	16.10
0-30	436.88	N.A.	33.30
0-40	688.44	N.A.	52.40
0-60	1105.67	N.A.	84.20
0-80	1290.19	N.A.	98.20
0-90	1313.38	N.A.	100.00
10-90	1257.84	N.A.	95.80
20-40	476.77	N.A.	36.30
20-50	712.73	N.A.	54.30
40-70	535.74	N.A.	40.80
60-80	184.52	N.A.	14.00
70-80	66.02	N.A.	5.00
80-90	23.19	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	1313.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.55
10-20	156.12
20-30	225.21
30-40	251.56
40-50	235.96
50-60	181.27
60-70	118.50
70-80	66.02
80-90	23.19
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	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	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	UGR Viewed Endwise			
	3H	11.0	12.4	11.4	12.7	13.1	9.2	10.7	9.6	11.0
	4H	11.5	12.8	11.9	13.2	13.6	10.7	12.0	11.0	12.4
	6H	12.0	13.2	12.4	13.6	14.0	11.2	12.5	11.6	12.9
	8H	12.2	13.3	12.6	13.7	14.1	11.8	13.0	12.2	13.3
	12H	12.3	13.4	12.7	13.8	14.2	12.0	13.2	12.4	13.5

4H	2H	10.0	11.3	10.4	11.6	12.0	12.2	13.3	12.6	13.7	14.1
	3H	11.6	12.7	12.1	13.1	13.5	9.7	11.0	10.1	11.3	11.7
	4H	12.3	13.3	12.8	13.7	14.1	11.4	12.5	11.8	12.9	13.3
	6H	12.9	13.8	13.4	14.2	14.7	12.1	13.1	12.5	13.5	13.9
	8H	13.2	14.0	13.6	14.4	14.9	12.8	13.7	13.3	14.1	14.6
	12H	13.4	14.1	13.9	14.6	15.0	13.1	13.9	13.6	14.3	14.8

8H	4H	12.6	13.4	13.0	13.8	14.3	13.4	14.1	13.9	14.6	15.0
	6H	13.3	14.0	13.8	14.5	14.9	12.4	13.2	12.8	13.6	14.1
	8H	13.6	14.2	14.2	14.8	15.2	13.2	13.9	13.7	14.4	14.8
	12H	13.9	14.5	14.4	15.0	15.5	13.6	14.2	14.1	14.7	15.2

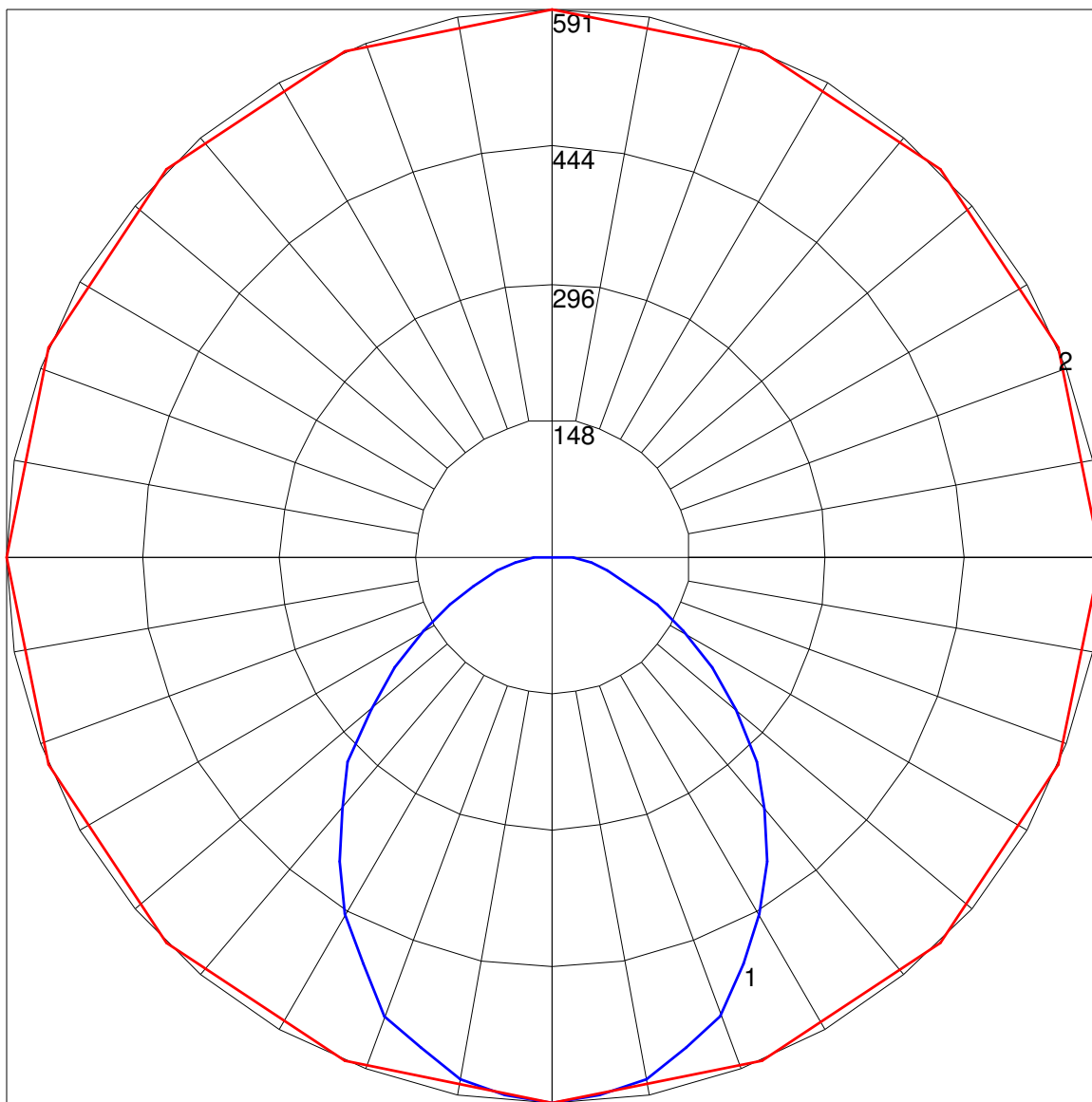
12H	4H	12.6	13.3	13.1	13.8	14.3	14.0	14.5	14.5	15.0	15.6
	6H	13.4	14.0	13.9	14.5	15.0	12.4	13.1	12.9	13.6	14.1
	8H	13.8	14.3	14.3	14.8	15.4	13.3	13.9	13.8	14.4	14.9

Maximum UGR = 15.6

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POLAR GRAPH



Maximum Candela = 591.421 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.)