



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-940-SAF12125-(L45)-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] 09-06-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2 x 4 RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S24-L59-940-SAF12125-(L45)-DIM-UNV
 [LAMP] LED
 [LAMPCAT] HLM 90 CRI 4000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	33.4
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	2132	2102	2073
55	1759	1701	1649
65	1415	1330	1313
75	1146	1098	1159
85	1145	1145	1351

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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	1770.121	1770.121	1770.121	1770.121	1770.121
5	1752.697	1751.554	1750.126	1749.269	1749.269
10	1720.991	1718.991	1720.419	1720.991	1720.991
15	1650.723	1650.723	1650.723	1652.722	1653.579
20	1589.310	1589.310	1591.309	1594.166	1591.309
25	1455.344	1453.916	1458.200	1460.771	1460.200
30	1340.802	1339.374	1342.230	1342.230	1345.086
35	1206.265	1205.693	1203.408	1202.837	1208.264
40	1067.443	1064.872	1059.159	1054.589	1058.588
45	936.333	932.906	923.194	914.910	910.340
50	770.090	763.234	755.522	742.668	734.956
55	626.698	616.129	605.846	590.136	587.279
60	485.019	476.736	463.596	451.314	449.886
65	371.334	364.479	349.054	344.484	344.484
70	270.503	266.504	253.364	258.220	258.791
75	184.239	181.382	176.527	182.811	186.238
80	124.254	122.255	122.255	127.682	131.681
85	61.984	59.985	61.984	70.268	73.124
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	633.53	N.A.	16.10
0-30	1307.57	N.A.	33.30
0-40	2060.49	N.A.	52.40
0-60	3309.27	N.A.	84.20
0-80	3861.55	N.A.	98.20
0-90	3930.95	N.A.	100.00
10-90	3764.7	N.A.	95.80
20-40	1426.96	N.A.	36.30
20-50	2133.19	N.A.	54.30
40-70	1603.46	N.A.	40.80
60-80	552.27	N.A.	14.00
70-80	197.60	N.A.	5.00
80-90	69.41	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	3930.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.25
10-20	467.28
20-30	674.04
30-40	752.92
40-50	706.23
50-60	542.55
60-70	354.68
70-80	197.60
80-90	69.41
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	13.5	15.0	13.8	15.3	15.6	13.1	14.6	13.5	14.9	15.3
	3H	14.9	16.3	15.3	16.6	17.0	14.5	15.9	14.9	16.3	16.6
	4H	15.4	16.7	15.8	17.1	17.5	15.1	16.4	15.5	16.8	17.2
	6H	15.9	17.1	16.3	17.5	17.9	15.7	16.9	16.1	17.2	17.6
	8H	16.1	17.2	16.5	17.6	18.0	15.9	17.1	16.3	17.4	17.8
	12H	16.2	17.3	16.6	17.7	18.1	16.1	17.2	16.5	17.6	18.0

UGR Viewed Endwise

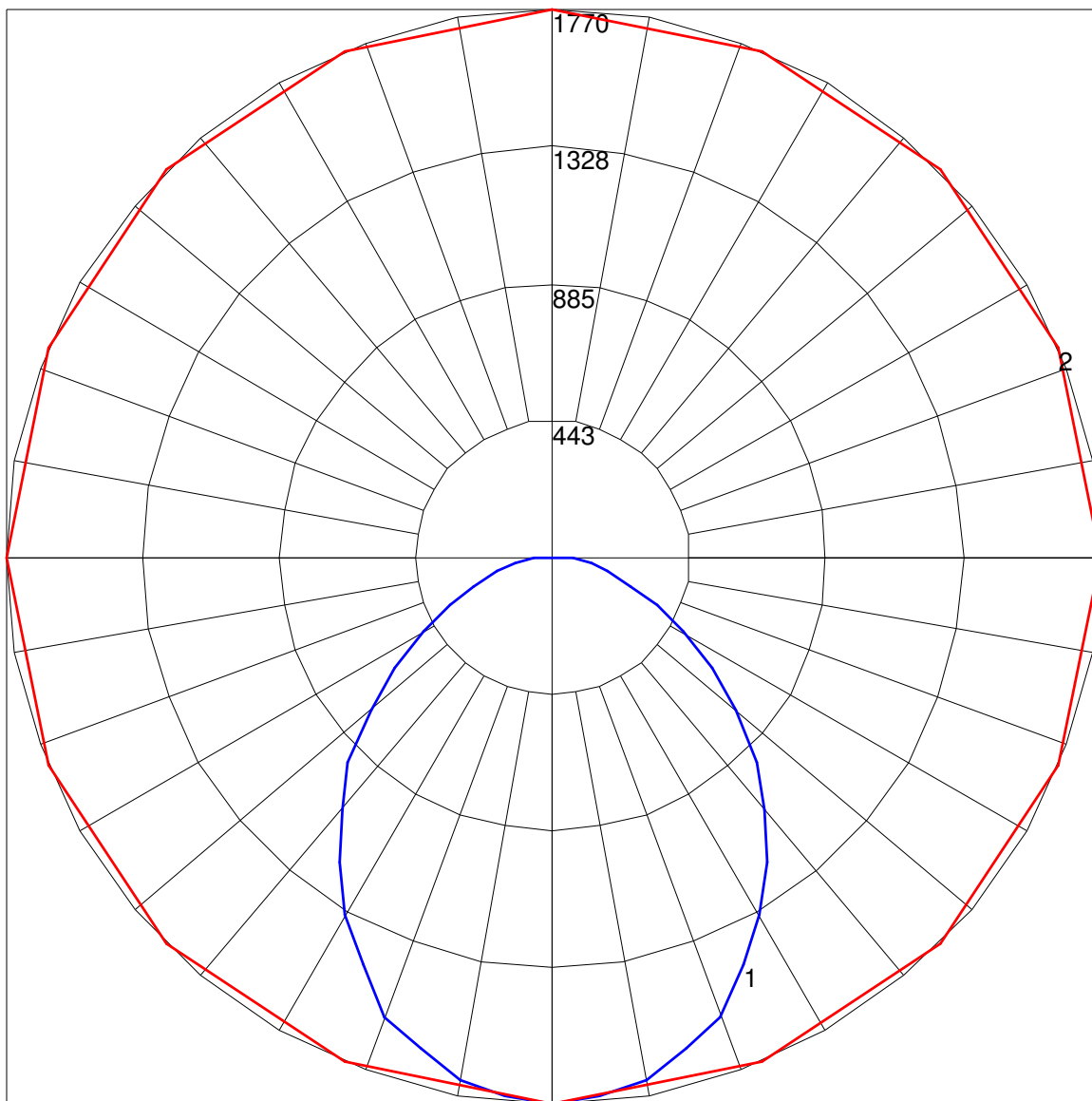
4H	2H	13.9	15.2	14.3	15.5	15.9	13.6	14.9	14.0	15.2	15.6
	3H	15.5	16.6	16.0	17.0	17.4	15.3	16.4	15.7	16.8	17.2
	4H	16.2	17.2	16.6	17.6	18.0	16.0	17.0	16.4	17.4	17.8
	6H	16.8	17.7	17.3	18.1	18.6	16.7	17.5	17.2	18.0	18.4
	8H	17.1	17.9	17.5	18.3	18.8	17.0	17.8	17.5	18.2	18.7
	12H	17.3	18.0	17.8	18.5	18.9	17.3	18.0	17.8	18.5	18.9

8H	4H	16.5	17.3	16.9	17.7	18.2	16.3	17.1	16.7	17.5	18.0
	6H	17.2	17.9	17.7	18.4	18.8	17.1	17.8	17.6	18.3	18.7
	8H	17.5	18.1	18.1	18.7	19.1	17.5	18.1	18.0	18.6	19.1
	12H	17.8	18.4	18.3	18.9	19.4	17.9	18.4	18.4	18.9	19.5

12H	4H	16.5	17.2	17.0	17.7	18.2	16.3	17.0	16.8	17.5	18.0
	6H	17.3	17.9	17.8	18.4	18.9	17.2	17.8	17.7	18.3	18.8
	8H	17.7	18.2	18.2	18.7	19.3	17.6	18.2	18.2	18.7	19.2

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1770.121 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.)