



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-835-SAF12125-(L35)-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] 26-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S24-L59-835-SAF12125-(L35)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K 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	3469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	1882	1855	1829
55	1553	1501	1455
65	1249	1174	1158
75	1012	969	1022
85	1011	1011	1192

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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	1562.083	1562.083	1562.083	1562.083	1562.083
5	1546.707	1545.699	1544.438	1543.682	1543.682
10	1518.727	1516.963	1518.223	1518.727	1518.727
15	1456.718	1456.718	1456.718	1458.482	1459.238
20	1402.523	1402.523	1404.287	1406.808	1404.287
25	1284.301	1283.041	1286.822	1289.091	1288.586
30	1183.221	1181.960	1184.481	1184.481	1187.002
35	1064.495	1063.991	1061.975	1061.471	1066.260
40	941.989	939.720	934.679	930.646	934.175
45	826.288	823.264	814.693	807.383	803.350
50	679.583	673.533	666.728	655.384	648.578
55	553.044	543.717	534.642	520.778	518.258
60	428.016	420.706	409.111	398.272	397.012
65	327.692	321.642	308.031	303.998	303.998
70	238.711	235.182	223.587	227.872	228.376
75	162.586	160.065	155.780	161.325	164.350
80	109.651	107.886	107.886	112.676	116.205
85	54.699	52.935	54.699	62.009	64.530
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	559.07	N.A.	16.10
0-30	1153.89	N.A.	33.30
0-40	1818.32	N.A.	52.40
0-60	2920.34	N.A.	84.20
0-80	3407.71	N.A.	98.20
0-90	3468.96	N.A.	100.00
10-90	3322.25	N.A.	95.80
20-40	1259.25	N.A.	36.30
20-50	1882.48	N.A.	54.30
40-70	1415.01	N.A.	40.80
60-80	487.37	N.A.	14.00
70-80	174.37	N.A.	5.00
80-90	61.25	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	3468.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.71
10-20	412.36
20-30	594.82
30-40	664.43
40-50	623.23
50-60	478.79
60-70	312.99
70-80	174.37
80-90	61.25
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	13.0	14.5	13.3	14.8	15.1	12.6	14.1	13.0	14.4	14.8
	3H	14.4	15.8	14.8	16.1	16.5	14.0	15.4	14.4	15.8	16.1
	4H	14.9	16.2	15.3	16.6	17.0	14.6	15.9	15.0	16.3	16.7
	6H	15.4	16.6	15.8	17.0	17.4	15.2	16.4	15.6	16.7	17.1
	8H	15.6	16.7	16.0	17.1	17.5	15.4	16.6	15.8	16.9	17.3
	12H	15.7	16.8	16.1	17.2	17.6	15.6	16.7	16.0	17.1	17.5

UGR Viewed Endwise

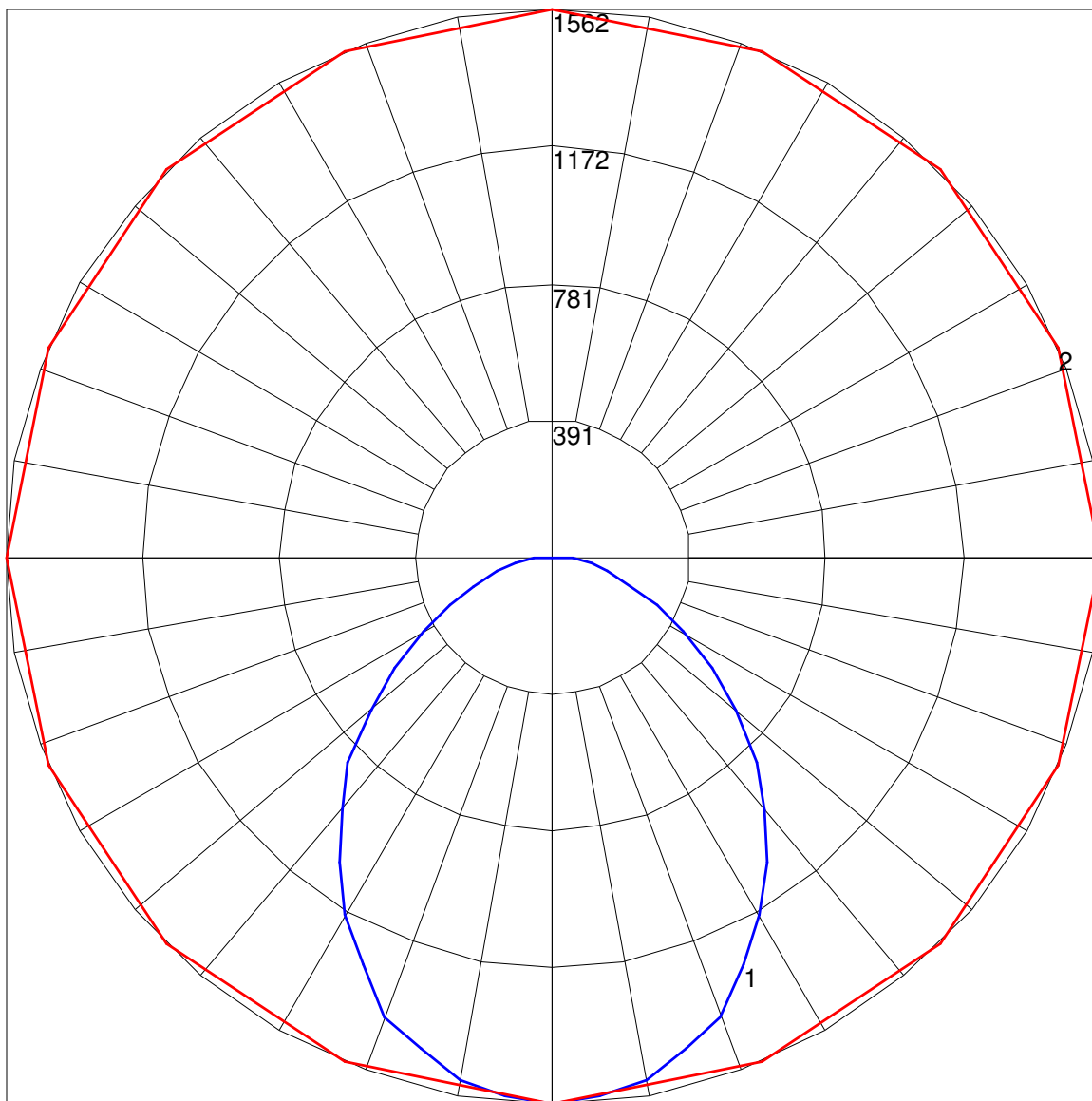
4H	2H	13.4	14.7	13.8	15.0	15.4	13.1	14.4	13.5	14.7	15.1
	3H	15.0	16.1	15.5	16.5	16.9	14.8	15.9	15.2	16.3	16.7
	4H	15.7	16.7	16.1	17.1	17.5	15.5	16.5	15.9	16.9	17.3
	6H	16.3	17.2	16.8	17.6	18.1	16.2	17.0	16.7	17.5	17.9
	8H	16.6	17.4	17.0	17.8	18.3	16.5	17.3	17.0	17.7	18.2
	12H	16.8	17.5	17.3	18.0	18.4	16.8	17.5	17.3	18.0	18.4

8H	4H	16.0	16.8	16.4	17.2	17.7	15.8	16.6	16.2	17.0	17.5
	6H	16.7	17.4	17.2	17.9	18.3	16.6	17.3	17.1	17.8	18.2
	8H	17.0	17.6	17.6	18.2	18.6	17.0	17.6	17.5	18.1	18.6
	12H	17.3	17.9	17.8	18.4	18.9	17.4	17.9	17.9	18.4	19.0

12H	4H	16.0	16.7	16.5	17.2	17.7	15.8	16.5	16.3	17.0	17.5
	6H	16.8	17.4	17.3	17.9	18.4	16.7	17.3	17.2	17.8	18.3
	8H	17.2	17.7	17.7	18.2	18.8	17.1	17.7	17.7	18.2	18.7

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 1562.083 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.)