



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-835-SPC12125-(L48)-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] 28-OCT-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-SPC12125-(L48)-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	4233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	34
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	2296	2264	2232
55	1894	1831	1775
65	1523	1432	1413
75	1234	1183	1248
85	1233	1233	1455

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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	1905.976	1905.976	1905.976	1905.976	1905.976
5	1887.214	1885.984	1884.446	1883.524	1883.524
10	1853.075	1850.922	1852.460	1853.075	1853.075
15	1777.414	1777.414	1777.414	1779.567	1780.490
20	1711.288	1711.288	1713.441	1716.516	1713.441
25	1567.040	1565.502	1570.116	1572.884	1572.269
30	1443.707	1442.169	1445.245	1445.245	1448.320
35	1298.844	1298.229	1295.768	1295.153	1300.997
40	1149.368	1146.600	1140.448	1135.527	1139.833
45	1008.196	1004.505	994.048	985.128	980.207
50	829.193	821.812	813.508	799.667	791.363
55	674.796	663.416	652.344	635.428	632.352
60	522.244	513.325	499.177	485.952	484.414
65	399.834	392.452	375.844	370.923	370.923
70	291.263	286.957	272.810	278.038	278.653
75	198.379	195.303	190.075	196.841	200.532
80	133.790	131.638	131.638	137.481	141.787
85	66.741	64.589	66.741	75.661	78.736
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	682.15	N.A.	16.10
0-30	1407.92	N.A.	33.30
0-40	2218.63	N.A.	52.40
0-60	3563.26	N.A.	84.20
0-80	4157.92	N.A.	98.20
0-90	4232.65	N.A.	100.00
10-90	4053.64	N.A.	95.80
20-40	1536.48	N.A.	36.30
20-50	2296.91	N.A.	54.30
40-70	1726.53	N.A.	40.80
60-80	594.66	N.A.	14.00
70-80	212.76	N.A.	5.00
80-90	74.73	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	4232.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.01
10-20	503.14
20-30	725.77
30-40	810.71
40-50	760.43
50-60	584.20
60-70	381.90
70-80	212.76
80-90	74.73
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	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	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	13.7	15.2	14.0	15.5	15.8	13.3	14.8	13.7	15.1	15.5
	3H	15.1	16.5	15.5	16.8	17.2	14.7	16.1	15.1	16.5	16.8
	4H	15.6	16.9	16.0	17.3	17.7	15.3	16.6	15.7	17.0	17.4
	6H	16.1	17.3	16.5	17.7	18.0	15.9	17.1	16.3	17.4	17.8
	8H	16.3	17.4	16.7	17.8	18.2	16.1	17.3	16.5	17.6	18.0
	12H	16.4	17.5	16.8	17.9	18.3	16.3	17.4	16.7	17.8	18.2

UGR Viewed Endwise

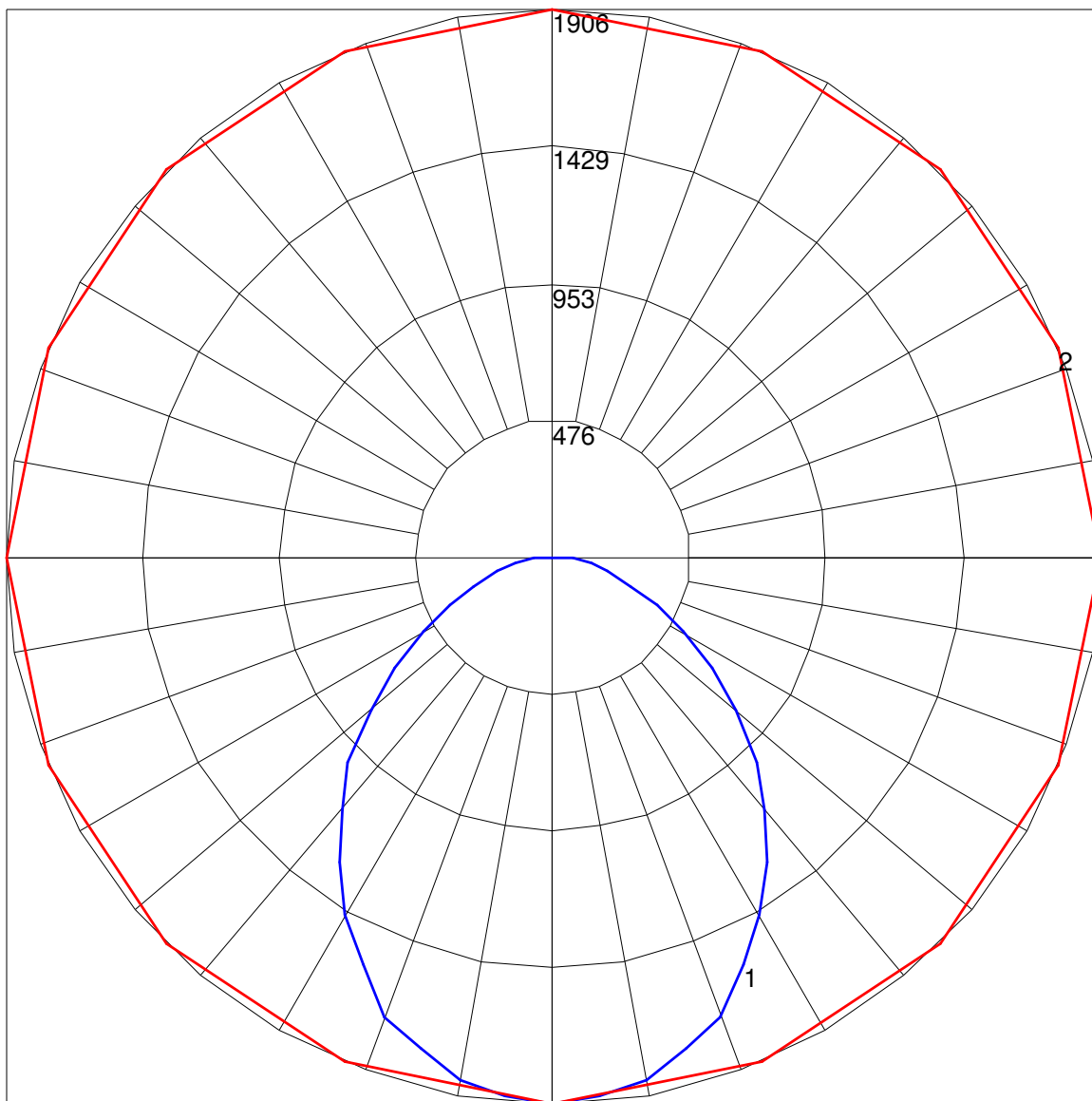
4H	2H	14.1	15.4	14.5	15.7	16.1	13.8	15.1	14.2	15.4	15.8
	3H	15.7	16.8	16.2	17.2	17.6	15.5	16.6	15.9	17.0	17.4
	4H	16.4	17.4	16.8	17.8	18.2	16.2	17.2	16.6	17.6	18.0
	6H	17.0	17.9	17.5	18.3	18.8	16.9	17.7	17.4	18.2	18.6
	8H	17.3	18.1	17.7	18.5	19.0	17.2	18.0	17.7	18.4	18.9
	12H	17.5	18.2	18.0	18.7	19.1	17.5	18.2	18.0	18.7	19.1

8H	4H	16.7	17.5	17.1	17.9	18.4	16.5	17.3	16.9	17.7	18.2
	6H	17.4	18.1	17.9	18.6	19.0	17.3	18.0	17.8	18.5	18.9
	8H	17.7	18.3	18.3	18.9	19.3	17.7	18.3	18.2	18.8	19.3
	12H	18.0	18.6	18.5	19.1	19.6	18.1	18.6	18.6	19.1	19.7

12H	4H	16.7	17.4	17.2	17.9	18.4	16.5	17.2	17.0	17.7	18.2
	6H	17.5	18.1	18.0	18.6	19.1	17.4	18.0	17.9	18.5	19.0
	8H	17.9	18.4	18.4	18.9	19.5	17.8	18.4	18.3	18.9	19.4

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1905.976 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.)