



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-935-SAF12125-(L55)-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 JUNE 2022
[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-L59-935-SAF12125-(L55)-DIM-UNV
[LAMPCAT] HLM 90 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	4640
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	41
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	2517	2481	2447
55	2077	2008	1946
65	1670	1570	1549
75	1353	1296	1368
85	1352	1352	1595

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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	2089.382	2089.382	2089.382	2089.382	2089.382
5	2068.816	2067.467	2065.781	2064.770	2064.770
10	2031.391	2029.031	2030.716	2031.391	2031.391
15	1948.449	1948.449	1948.449	1950.809	1951.821
20	1875.960	1875.960	1878.320	1881.692	1878.320
25	1717.832	1716.146	1721.203	1724.238	1723.563
30	1582.630	1580.945	1584.316	1584.316	1587.688
35	1423.828	1423.154	1420.456	1419.782	1426.188
40	1259.968	1256.934	1250.190	1244.796	1249.516
45	1105.211	1101.166	1089.702	1079.924	1074.530
50	908.984	900.892	891.789	876.617	867.513
55	739.730	727.255	715.117	696.573	693.202
60	572.498	562.721	547.211	532.713	531.027
65	438.308	430.217	412.010	406.615	406.615
70	319.291	314.571	299.061	304.793	305.467
75	217.468	214.097	208.365	215.783	219.829
80	146.665	144.305	144.305	150.711	155.431
85	73.164	70.804	73.164	82.941	86.313
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	747.79	N.A.	16.10
0-30	1543.4	N.A.	33.30
0-40	2432.12	N.A.	52.40
0-60	3906.14	N.A.	84.20
0-80	4558.02	N.A.	98.20
0-90	4639.95	N.A.	100.00
10-90	4443.71	N.A.	95.80
20-40	1684.33	N.A.	36.30
20-50	2517.94	N.A.	54.30
40-70	1892.67	N.A.	40.80
60-80	651.88	N.A.	14.00
70-80	233.23	N.A.	5.00
80-90	81.93	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	4639.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.24
10-20	551.56
20-30	795.61
30-40	888.72
40-50	833.61
50-60	640.41
60-70	418.65
70-80	233.23
80-90	81.93
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

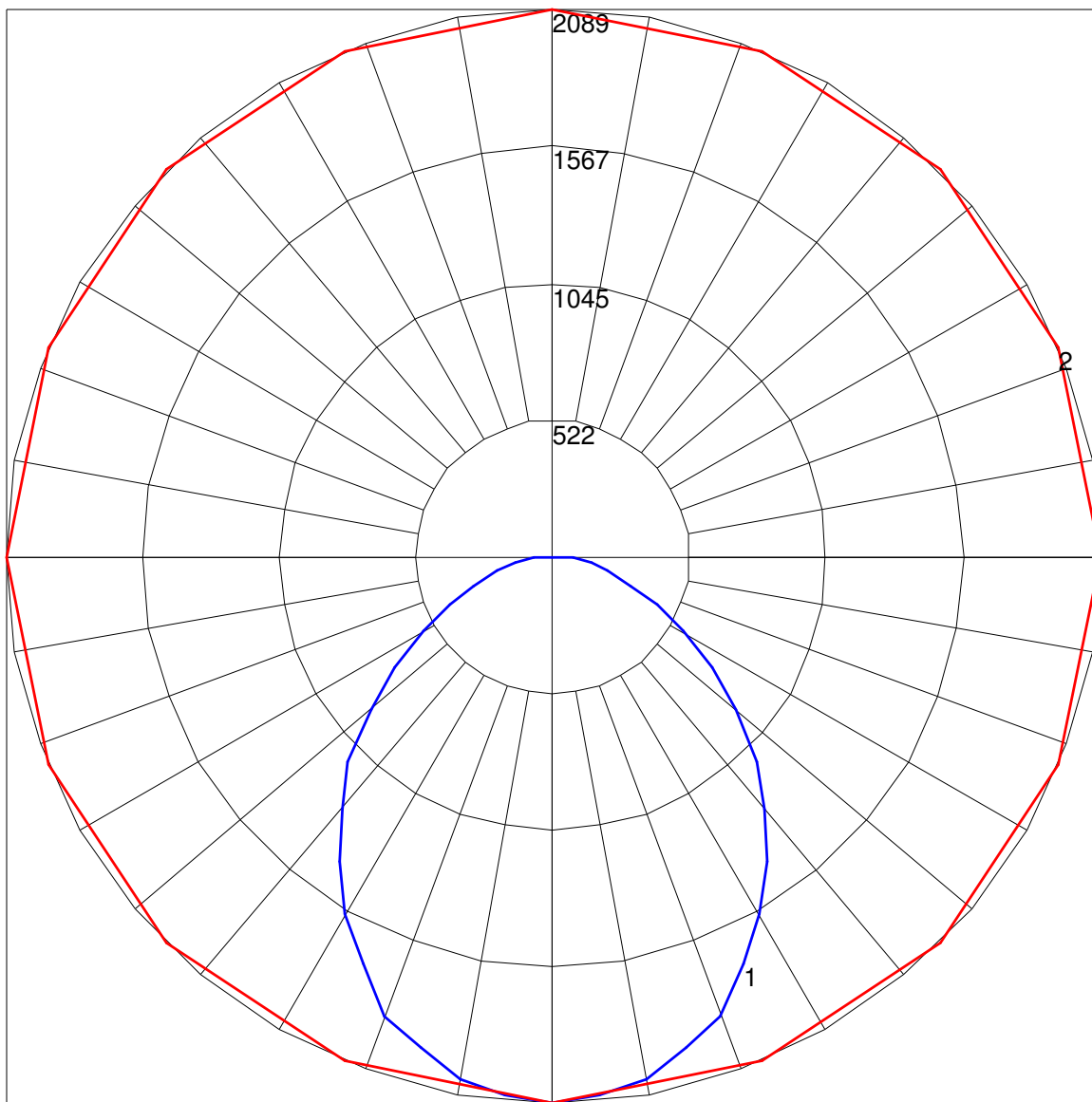
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.0	15.5	14.3	15.8	16.1	13.6	15.1	14.0	15.4	15.8
	3H	15.4	16.8	15.8	17.1	17.5	15.0	16.4	15.4	16.8	17.1
	4H	15.9	17.2	16.3	17.6	18.0	15.6	16.9	16.0	17.3	17.7
	6H	16.4	17.6	16.8	18.0	18.4	16.2	17.4	16.6	17.7	18.1
	8H	16.6	17.7	17.0	18.1	18.5	16.4	17.6	16.8	17.9	18.3
	12H	16.7	17.8	17.1	18.2	18.6	16.6	17.7	17.0	18.1	18.5
4H	2H	14.4	15.7	14.8	16.0	16.4	14.1	15.4	14.5	15.7	16.1
	3H	16.0	17.1	16.5	17.5	17.9	15.8	16.9	16.2	17.3	17.7
	4H	16.7	17.7	17.1	18.1	18.5	16.5	17.5	16.9	17.9	18.3
	6H	17.3	18.2	17.8	18.6	19.1	17.2	18.0	17.7	18.5	18.9
	8H	17.6	18.4	18.0	18.8	19.3	17.5	18.3	18.0	18.7	19.2
	12H	17.8	18.5	18.3	19.0	19.4	17.8	18.5	18.3	19.0	19.4
8H	4H	17.0	17.8	17.4	18.2	18.7	16.8	17.6	17.2	18.0	18.5
	6H	17.7	18.4	18.2	18.9	19.3	17.6	18.3	18.1	18.8	19.2
	8H	18.0	18.6	18.6	19.2	19.6	18.0	18.6	18.5	19.1	19.6
	12H	18.3	18.9	18.8	19.4	19.9	18.4	18.9	18.9	19.4	20.0
12H	4H	17.0	17.7	17.5	18.2	18.7	16.8	17.5	17.3	18.0	18.5
	6H	17.8	18.4	18.3	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	8H	18.2	18.7	18.7	19.2	19.8	18.1	18.7	18.7	19.2	19.7

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 2089.382 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.)