



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L27-935-SA12125-DRV-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18123.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-17-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 1x4'LED TROFFER
 [MORE] WITH ACRYLIC LENS
 [LUMCAT] 50G-S14-L27-935-SA12125-DRV-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT
 [_SEARCH_SOURCETYPE]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	2167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	20.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2820	2677	2511
55	2262	2055	1852
65	1814	1597	1475
75	1446	1337	1337
85	1473	1333	1473

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	996.970	996.970	996.970	996.970	996.970
5	994.325	993.995	994.325	993.995	994.986
10	977.797	977.797	977.136	977.136	977.136
15	939.783	939.783	938.130	938.130	937.800
20	910.363	909.702	907.719	906.396	906.066
25	830.367	828.384	826.070	822.765	822.765
30	765.578	762.933	756.653	749.380	747.066
35	699.135	695.829	685.582	672.360	667.401
40	611.206	605.586	591.372	574.183	566.250
45	539.144	530.219	511.707	488.238	479.974
50	439.645	429.067	408.573	383.781	376.508
55	350.724	340.808	318.660	295.851	287.257
60	269.407	259.490	240.978	223.459	216.517
65	207.261	198.997	182.469	171.561	168.586
70	148.422	142.802	130.571	127.266	127.596
75	101.151	98.176	93.549	91.235	93.549
80	67.434	65.451	62.476	64.129	65.120
85	34.709	33.056	31.403	34.378	34.709
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	360.19	N.A.	16.60
0-30	742.29	N.A.	34.30
0-40	1167.02	N.A.	53.90
0-60	1843.39	N.A.	85.10
0-80	2130.95	N.A.	98.30
0-90	2166.72	N.A.	100.00
10-90	2072.38	N.A.	95.60
20-40	806.83	N.A.	37.20
20-50	1195.84	N.A.	55.20
40-70	861.16	N.A.	39.70
60-80	287.57	N.A.	13.30
70-80	102.77	N.A.	4.70
80-90	35.76	N.A.	1.70
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	2166.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.34
10-20	265.86
20-30	382.10
30-40	424.73
40-50	389.01
50-60	287.36
60-70	184.80
70-80	102.77
80-90	35.76
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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UGR TABLE - CORRECTED

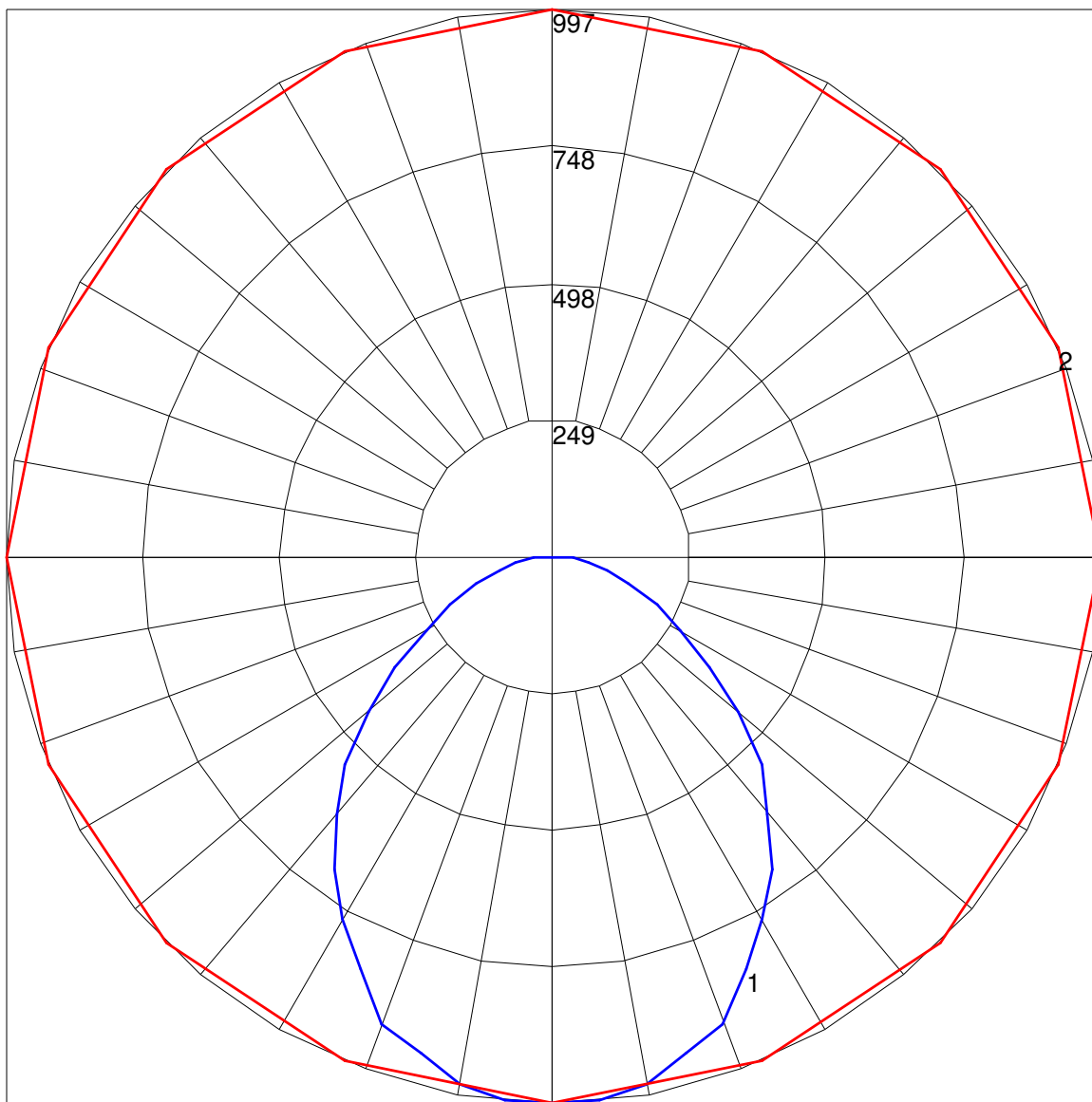
Reflectances

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	14.3	15.8	14.6	16.1	16.4	13.2	14.7	13.5	15.0	15.3
	3H	15.7	17.0	16.1	17.4	17.7	14.6	16.0	15.0	16.3	16.7
	4H	16.2	17.5	16.6	17.8	18.2	15.2	16.5	15.6	16.8	17.2
	6H	16.7	17.8	17.1	18.2	18.6	15.8	16.9	16.2	17.3	17.7
	8H	16.8	18.0	17.3	18.3	18.7	16.0	17.1	16.4	17.5	17.9
	12H	17.0	18.1	17.4	18.4	18.9	16.2	17.3	16.6	17.6	18.1
4H	2H	14.6	15.9	15.0	16.3	16.6	13.7	15.0	14.1	15.4	15.7
	3H	16.3	17.3	16.7	17.7	18.1	15.4	16.5	15.8	16.9	17.3
	4H	16.9	17.9	17.4	18.3	18.7	16.1	17.1	16.5	17.5	17.9
	6H	17.5	18.4	18.0	18.8	19.3	16.8	17.6	17.3	18.1	18.5
	8H	17.8	18.6	18.2	19.0	19.5	17.1	17.9	17.6	18.3	18.8
	12H	18.0	18.7	18.5	19.2	19.6	17.4	18.1	17.8	18.5	19.0
8H	4H	17.1	17.9	17.6	18.4	18.8	16.4	17.2	16.9	17.6	18.1
	6H	17.9	18.5	18.4	19.0	19.5	17.2	17.9	17.7	18.4	18.9
	8H	18.2	18.8	18.7	19.3	19.8	17.7	18.2	18.2	18.7	19.2
	12H	18.5	19.0	19.0	19.5	20.1	18.0	18.5	18.5	19.0	19.6
12H	4H	17.2	17.9	17.6	18.3	18.8	16.4	17.2	16.9	17.6	18.1
	6H	18.0	18.5	18.5	19.0	19.5	17.4	17.9	17.9	18.4	18.9
	8H	18.3	18.9	18.8	19.3	19.9	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 996.97 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.)