



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L27-835-SAF12125--DIM-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] 31-JAN-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 1x4' RECESSED LED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT12 LENS PRISMS DOWN
 [LUMCAT] 50G-S14-L27-835-SAF12125-DIM-UNV
 [_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	2637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	3432	3257	3055
55	2752	2501	2254
65	2208	1943	1796
75	1759	1627	1627
85	1793	1622	1793

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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	1213.301	1213.301	1213.301	1213.301	1213.301
5	1210.083	1209.681	1210.083	1209.681	1210.888
10	1189.969	1189.969	1189.164	1189.164	1189.164
15	1143.706	1143.706	1141.694	1141.694	1141.292
20	1107.902	1107.097	1104.684	1103.074	1102.672
25	1010.548	1008.134	1005.318	1001.296	1001.296
30	931.700	928.481	920.838	911.988	909.172
35	850.840	846.817	834.346	818.254	812.220
40	743.831	736.992	719.694	698.775	689.120
45	656.132	645.270	622.742	594.180	584.123
50	535.043	522.170	497.228	467.057	458.206
55	426.828	414.759	387.806	360.048	349.589
60	327.865	315.796	293.268	271.947	263.499
65	252.235	242.178	222.063	208.788	205.167
70	180.627	173.789	158.904	154.881	155.283
75	123.100	119.480	113.848	111.032	113.848
80	82.067	79.653	76.032	78.044	79.251
85	42.240	40.229	38.217	41.838	42.240
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	438.35	N.A.	16.60
0-30	903.36	N.A.	34.30
0-40	1420.25	N.A.	53.90
0-60	2243.38	N.A.	85.10
0-80	2593.35	N.A.	98.30
0-90	2636.87	N.A.	100.00
10-90	2522.07	N.A.	95.60
20-40	981.90	N.A.	37.20
20-50	1455.32	N.A.	55.20
40-70	1048.03	N.A.	39.70
60-80	349.97	N.A.	13.30
70-80	125.07	N.A.	4.70
80-90	43.52	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	2636.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.81
10-20	323.54
20-30	465.01
30-40	516.89
40-50	473.42
50-60	349.71
60-70	224.89
70-80	125.07
80-90	43.52
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	153	153	153	153	150	150	150	150	143	143	143	137	137	137	132	132	132	129
1	141	136	131	126	138	133	128	124	128	124	120	123	120	117	118	116	113	111
2	130	120	112	106	127	118	111	104	113	107	102	109	104	100	105	101	97	95
3	120	107	97	90	116	105	96	89	101	94	87	98	91	86	95	89	84	82
4	110	96	85	77	107	94	84	77	91	83	76	88	81	75	85	79	74	71
5	102	87	76	68	99	85	75	67	82	74	67	80	72	66	78	71	65	63
6	95	79	68	60	92	77	67	60	75	66	59	73	65	59	71	64	58	56
7	88	72	61	54	86	71	61	53	69	60	53	67	59	53	65	58	52	50
8	82	66	55	48	80	65	55	48	63	54	48	62	54	48	60	53	47	45
9	77	61	51	44	75	60	50	44	59	50	43	57	49	43	56	48	43	41
10	73	56	47	40	71	56	46	40	54	46	40	53	45	40	52	45	39	37

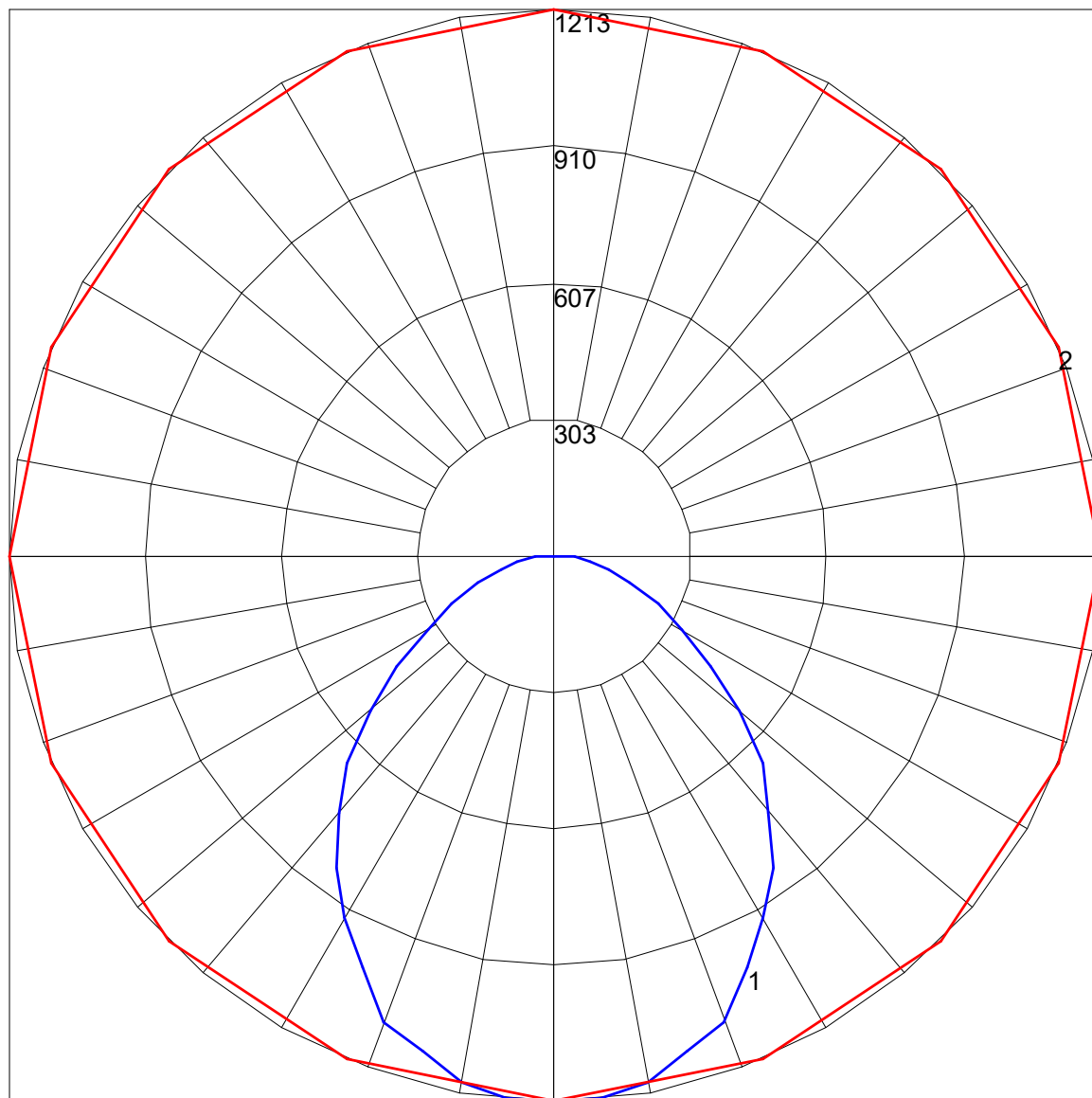
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UGR TABLE - CORRECTED

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	14.1	15.6	14.4	15.9	16.2	13.0	14.5	13.3	14.8	15.1
	3H	15.5	16.8	15.9	17.2	17.5	14.4	15.8	14.8	16.1	16.5
	4H	16.0	17.3	16.4	17.6	18.0	15.0	16.3	15.4	16.6	17.0
	6H	16.5	17.6	16.9	18.0	18.4	15.6	16.7	16.0	17.1	17.5
	8H	16.6	17.8	17.1	18.1	18.5	15.8	16.9	16.2	17.3	17.7
	12H	16.8	17.9	17.2	18.2	18.7	16.0	17.1	16.4	17.4	17.9
4H	2H	14.4	15.7	14.8	16.1	16.4	13.5	14.8	13.9	15.2	15.5
	3H	16.1	17.1	16.5	17.5	17.9	15.2	16.3	15.6	16.7	17.1
	4H	16.7	17.7	17.2	18.1	18.5	15.9	16.9	16.3	17.3	17.7
	6H	17.3	18.2	17.8	18.6	19.1	16.6	17.4	17.1	17.9	18.3
	8H	17.6	18.4	18.0	18.8	19.3	16.9	17.7	17.4	18.1	18.6
	12H	17.8	18.5	18.3	19.0	19.4	17.2	17.9	17.6	18.3	18.8
8H	4H	16.9	17.7	17.4	18.2	18.6	16.2	17.0	16.7	17.4	17.9
	6H	17.7	18.3	18.2	18.8	19.3	17.1	17.7	17.5	18.2	18.7
	8H	18.0	18.6	18.5	19.1	19.6	17.5	18.0	18.0	18.5	19.0
	12H	18.3	18.8	18.8	19.3	19.9	17.8	18.3	18.3	18.8	19.4
12H	4H	17.0	17.7	17.4	18.1	18.6	16.2	17.0	16.7	17.4	17.9
	6H	17.8	18.3	18.3	18.8	19.3	17.2	17.7	17.7	18.2	18.7
	8H	18.1	18.7	18.6	19.1	19.7	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 1213.301 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.)