



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-835-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-L45-835-SAF12125-DIM-UNV
 [_SEARCH_SOURCE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	33.7
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	5611	5325	4995
55	4500	4088	3685
65	3609	3177	2935
75	2876	2660	2660
85	2931	2651	2931

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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	1983.520	1983.520	1983.520	1983.520	1983.520
5	1978.259	1977.601	1978.259	1977.601	1979.574
10	1945.376	1945.376	1944.060	1944.060	1944.060
15	1869.744	1869.744	1866.456	1866.456	1865.798
20	1811.212	1809.897	1805.951	1803.320	1802.662
25	1652.057	1648.111	1643.507	1636.930	1636.930
30	1523.154	1517.893	1505.397	1490.929	1486.325
35	1390.963	1384.387	1363.999	1337.692	1327.827
40	1216.024	1204.844	1176.564	1142.366	1126.582
45	1072.653	1054.896	1018.067	971.373	954.931
50	874.696	853.650	812.875	763.550	749.081
55	697.784	678.054	633.990	588.611	571.512
60	535.998	516.268	479.438	444.582	430.771
65	412.357	395.915	363.032	341.329	335.410
70	295.292	284.112	259.778	253.201	253.859
75	201.246	195.327	186.119	181.516	186.119
80	134.164	130.218	124.299	127.587	129.560
85	69.055	65.767	62.478	68.397	69.055
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	716.62	N.A.	16.60
0-30	1476.82	N.A.	34.30
0-40	2321.84	N.A.	53.90
0-60	3667.51	N.A.	85.10
0-80	4239.64	N.A.	98.30
0-90	4310.79	N.A.	100.00
10-90	4123.1	N.A.	95.60
20-40	1605.22	N.A.	37.20
20-50	2379.18	N.A.	55.20
40-70	1713.33	N.A.	39.70
60-80	572.13	N.A.	13.30
70-80	204.47	N.A.	4.70
80-90	71.15	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	4310.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.69
10-20	528.93
20-30	760.20
30-40	845.02
40-50	773.95
50-60	571.71
60-70	367.66
70-80	204.47
80-90	71.15
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	195	195	195	195	190	190	190	190	182	182	182	174	174	174	167	167	167	163
1	179	172	166	160	175	169	163	158	162	157	153	155	152	148	150	147	144	140
2	165	153	142	134	161	150	140	132	144	136	129	139	132	126	134	128	124	120
3	152	136	124	114	148	133	122	113	128	119	111	124	116	109	120	113	107	104
4	140	122	108	98	136	120	107	98	116	105	96	112	103	95	108	100	94	90
5	129	110	96	86	126	108	95	85	105	93	85	101	92	84	99	90	83	80
6	120	100	86	76	117	98	85	76	95	84	75	93	82	74	90	81	74	71
7	112	91	77	68	109	90	77	68	87	76	67	85	75	67	83	73	66	63
8	104	83	70	61	102	82	70	61	80	69	61	78	68	60	76	67	60	57
9	98	77	64	56	96	76	64	55	74	63	55	73	62	55	71	62	55	52
10	92	71	59	51	90	71	59	51	69	58	50	67	57	50	66	57	50	47

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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	15.0	16.5	15.3	16.8	17.1	UGR Viewed Endwise				
	3H	16.4	17.7	16.8	18.1	18.4	13.9	15.4	14.2	15.7	16.0
	4H	16.9	18.2	17.3	18.5	18.9	15.3	16.7	15.7	17.0	17.4
	6H	17.4	18.5	17.8	18.9	19.3	15.9	17.2	16.3	17.5	17.9
	8H	17.5	18.7	18.0	19.0	19.4	16.5	17.6	16.9	18.0	18.4
	12H	17.7	18.8	18.1	19.1	19.6	16.7	17.8	17.1	18.2	18.6

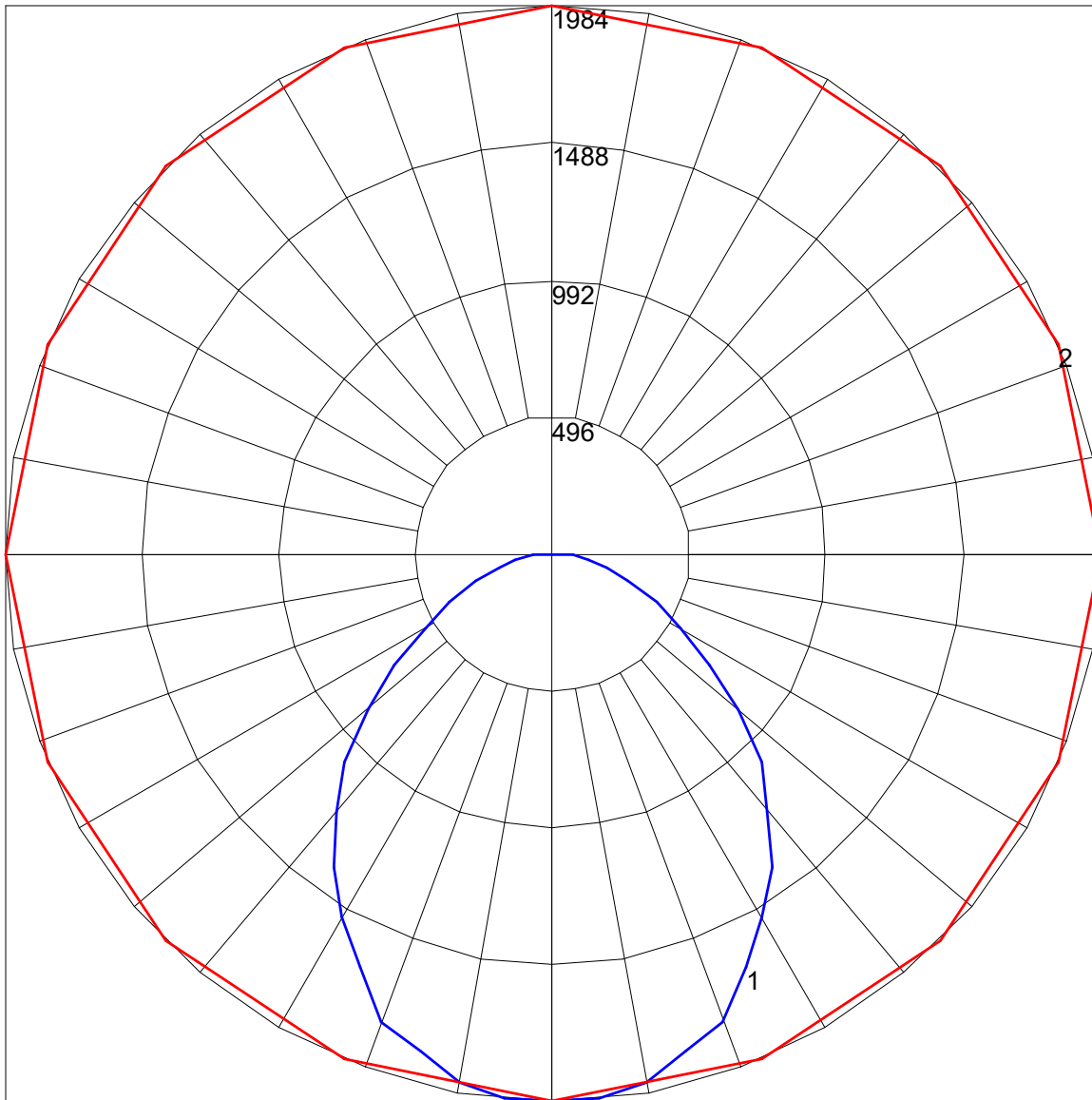
4H	2H	15.3	16.6	15.7	17.0	17.3	16.9	18.0	17.3	18.3	18.8
	3H	17.0	18.0	17.4	18.4	18.8	14.4	15.7	14.8	16.1	16.4
	4H	17.6	18.6	18.1	19.0	19.4	16.1	17.2	16.5	17.6	18.0
	6H	18.2	19.1	18.7	19.5	20.0	16.8	17.8	17.2	18.2	18.6
	8H	18.5	19.3	18.9	19.7	20.2	17.5	18.3	18.0	18.8	19.2
	12H	18.7	19.4	19.2	19.9	20.3	17.8	18.6	18.3	19.0	19.5

8H	4H	17.8	18.6	18.3	19.1	19.5	18.1	18.8	18.5	19.2	19.7
	6H	18.6	19.2	19.1	19.7	20.2	17.1	17.9	17.6	18.3	18.8
	8H	18.9	19.5	19.4	20.0	20.5	18.0	18.6	18.4	19.1	19.6
	12H	19.2	19.7	19.7	20.2	20.8	18.4	18.9	18.9	19.4	19.9

12H	4H	17.9	18.6	18.3	19.0	19.5	18.7	19.2	19.2	19.7	20.3
	6H	18.7	19.2	19.2	19.7	20.2	17.1	17.9	17.6	18.3	18.8
	8H	19.0	19.6	19.5	20.0	20.6	18.1	18.6	18.6	19.1	19.6

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1983.52 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.)