



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L65-835-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-L65-835-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	6563
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	55.7
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	8542	8107	7604
55	6850	6224	5611
65	5494	4837	4469
75	4378	4049	4049
85	4461	4037	4461

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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>
<b>0</b>	3019.679	3019.679	3019.679	3019.679	3019.679
<b>5</b>	3011.670	3010.669	3011.670	3010.669	3013.672
<b>10</b>	2961.609	2961.609	2959.606	2959.606	2959.606
<b>15</b>	2846.468	2846.468	2841.462	2841.462	2840.461
<b>20</b>	2757.360	2755.357	2749.350	2745.345	2744.344
<b>25</b>	2515.065	2509.057	2502.049	2492.037	2492.037
<b>30</b>	2318.825	2310.816	2291.793	2269.766	2262.757
<b>35</b>	2117.580	2107.568	2076.530	2036.481	2021.463
<b>40</b>	1851.256	1834.235	1791.183	1739.119	1715.090
<b>45</b>	1632.990	1605.957	1549.889	1478.802	1453.771
<b>50</b>	1331.623	1299.584	1237.508	1162.416	1140.390
<b>55</b>	1062.294	1032.258	965.176	896.092	870.060
<b>60</b>	815.994	785.958	729.889	676.825	655.799
<b>65</b>	627.765	602.734	552.673	519.633	510.622
<b>70</b>	449.548	432.527	395.482	385.470	386.471
<b>75</b>	306.373	297.362	283.345	276.337	283.345
<b>80</b>	204.249	198.242	189.231	194.237	197.240
<b>85</b>	105.128	100.122	95.116	104.127	105.128
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1090.97	N.A.	16.60
0-30	2248.29	N.A.	34.30
0-40	3534.74	N.A.	53.90
0-60	5583.36	N.A.	85.10
0-80	6454.36	N.A.	98.30
0-90	6562.68	N.A.	100.00
10-90	6276.95	N.A.	95.60
20-40	2443.77	N.A.	37.20
20-50	3622.02	N.A.	55.20
40-70	2608.34	N.A.	39.70
60-80	871.00	N.A.	13.30
70-80	311.28	N.A.	4.70
80-90	108.32	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	6562.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	285.73
10-20	805.24
20-30	1157.32
30-40	1286.45
40-50	1178.26
50-60	870.37
60-70	559.72
70-80	311.28
80-90	108.32
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	296	296	296	296	289	289	289	289	277	277	277	265	265	265	254	254	254	249
1	273	262	253	244	267	257	248	240	246	239	233	237	231	225	228	223	219	214
2	251	232	217	204	245	228	213	201	219	207	197	211	201	192	204	195	188	183
3	231	207	188	173	225	203	186	172	196	181	169	189	176	166	183	172	163	158
4	213	185	165	150	207	182	163	149	176	160	147	170	156	145	165	153	143	138
5	197	167	146	131	192	164	145	130	159	142	129	154	139	127	150	137	126	121
6	183	152	131	116	178	149	130	115	145	127	114	141	125	113	137	123	112	108
7	170	138	118	103	166	137	117	103	133	115	102	129	113	102	126	112	101	96
8	159	127	107	93	155	125	106	93	122	105	92	119	103	92	116	102	91	87
9	149	117	98	85	146	116	97	84	113	96	84	110	95	84	108	94	83	79
10	140	109	90	77	137	107	89	77	105	88	77	103	87	76	101	86	76	72

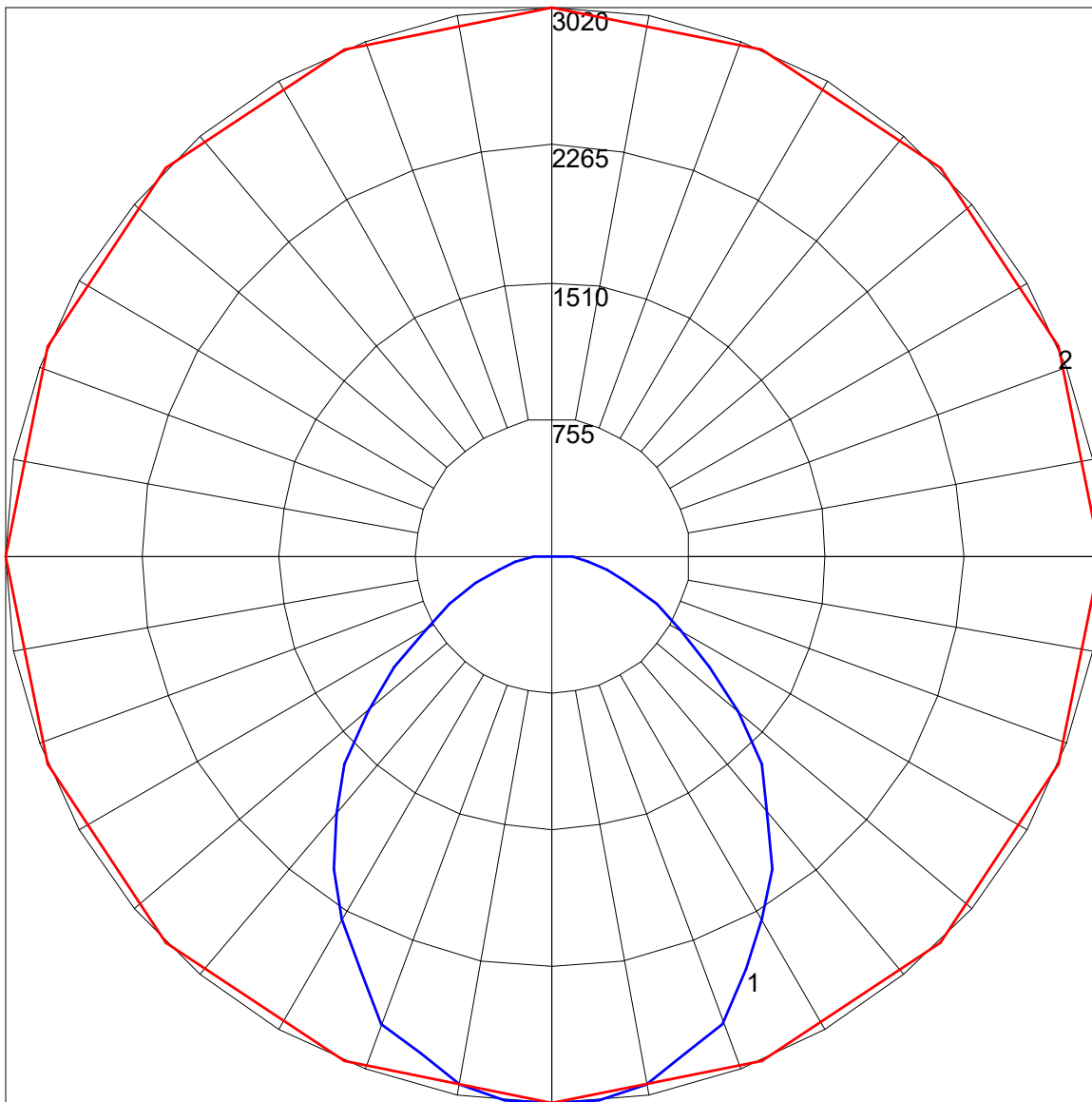
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**UGR TABLE - CORRECTED**

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	15.0	16.5	15.3	16.8	17.1	13.9	15.4	14.2	15.7	16.0
	3H	16.4	17.7	16.8	18.1	18.4	15.3	16.7	15.7	17.0	17.4
	4H	16.9	18.2	17.3	18.5	18.9	15.9	17.2	16.3	17.5	17.9
	6H	17.4	18.5	17.8	18.9	19.3	16.5	17.6	16.9	18.0	18.4
	8H	17.5	18.7	18.0	19.0	19.4	16.7	17.8	17.1	18.2	18.6
	12H	17.7	18.8	18.1	19.1	19.6	16.9	18.0	17.3	18.3	18.8
4H	2H	15.3	16.6	15.7	17.0	17.3	14.4	15.7	14.8	16.1	16.4
	3H	17.0	18.0	17.4	18.4	18.8	16.1	17.2	16.5	17.6	18.0
	4H	17.6	18.6	18.1	19.0	19.4	16.8	17.8	17.2	18.2	18.6
	6H	18.2	19.1	18.7	19.5	20.0	17.5	18.3	18.0	18.8	19.2
	8H	18.5	19.3	18.9	19.7	20.2	17.8	18.6	18.3	19.0	19.5
	12H	18.7	19.4	19.2	19.9	20.3	18.1	18.8	18.5	19.2	19.7
8H	4H	17.8	18.6	18.3	19.1	19.5	17.1	17.9	17.6	18.3	18.8
	6H	18.6	19.2	19.1	19.7	20.2	18.0	18.6	18.4	19.1	19.6
	8H	18.9	19.5	19.4	20.0	20.5	18.4	18.9	18.9	19.4	19.9
	12H	19.2	19.7	19.7	20.2	20.8	18.7	19.2	19.2	19.7	20.3
12H	4H	17.9	18.6	18.3	19.0	19.5	17.1	17.9	17.6	18.3	18.8
	6H	18.7	19.2	19.2	19.7	20.2	18.1	18.6	18.6	19.1	19.6
	8H	19.0	19.6	19.5	20.0	20.6	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 3019.679 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.)