



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-930-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] 12-MAR-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMINAIRE] 144 LEDS (2 BOARDS) 1x4'RECESSED TROFFER LUMINAIRE  
 [MORE] WHITE REFLECTOR w/PAT12 LENS PRISMS DOWN  
 [MORE] 2 ULT EVERLINE DRIVERS #D15CC55UNVT-C  
 [LUMCAT] 50G-S14-L45-930-SAF12125-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3000K 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	3286
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	33
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	4277	4059	3807
55	3430	3116	2809
65	2751	2422	2238
75	2192	2027	2027
85	2234	2021	2234

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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>	1511.891	1511.891	1511.891	1511.891	1511.891
<b>5</b>	1507.880	1507.379	1507.880	1507.379	1508.883
<b>10</b>	1482.816	1482.816	1481.813	1481.813	1481.813
<b>15</b>	1425.168	1425.168	1422.661	1422.661	1422.160
<b>20</b>	1380.553	1379.550	1376.542	1374.537	1374.036
<b>25</b>	1259.241	1256.233	1252.724	1247.711	1247.711
<b>30</b>	1160.988	1156.977	1147.453	1136.424	1132.915
<b>35</b>	1060.228	1055.215	1039.676	1019.624	1012.105
<b>40</b>	926.885	918.363	896.808	870.741	858.710
<b>45</b>	817.604	804.069	775.997	740.405	727.873
<b>50</b>	666.716	650.674	619.594	581.998	570.969
<b>55</b>	531.869	516.830	483.244	448.655	435.621
<b>60</b>	408.551	393.513	365.440	338.872	328.345
<b>65</b>	314.309	301.777	276.712	260.170	255.658
<b>70</b>	225.079	216.557	198.010	192.997	193.498
<b>75</b>	153.395	148.883	141.865	138.356	141.865
<b>80</b>	102.263	99.255	94.744	97.250	98.754
<b>85</b>	52.635	50.129	47.623	52.134	52.635
<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	546.23	N.A.	16.60
0-30	1125.67	N.A.	34.30
0-40	1769.77	N.A.	53.90
0-60	2795.47	N.A.	85.10
0-80	3231.56	N.A.	98.30
0-90	3285.8	N.A.	100.00
10-90	3142.74	N.A.	95.60
20-40	1223.54	N.A.	37.20
20-50	1813.47	N.A.	55.20
40-70	1305.94	N.A.	39.70
60-80	436.09	N.A.	13.30
70-80	155.85	N.A.	4.70
80-90	54.23	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	3285.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.06
10-20	403.17
20-30	579.44
30-40	644.10
40-50	589.93
50-60	435.77
60-70	280.24
70-80	155.85
80-90	54.23
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

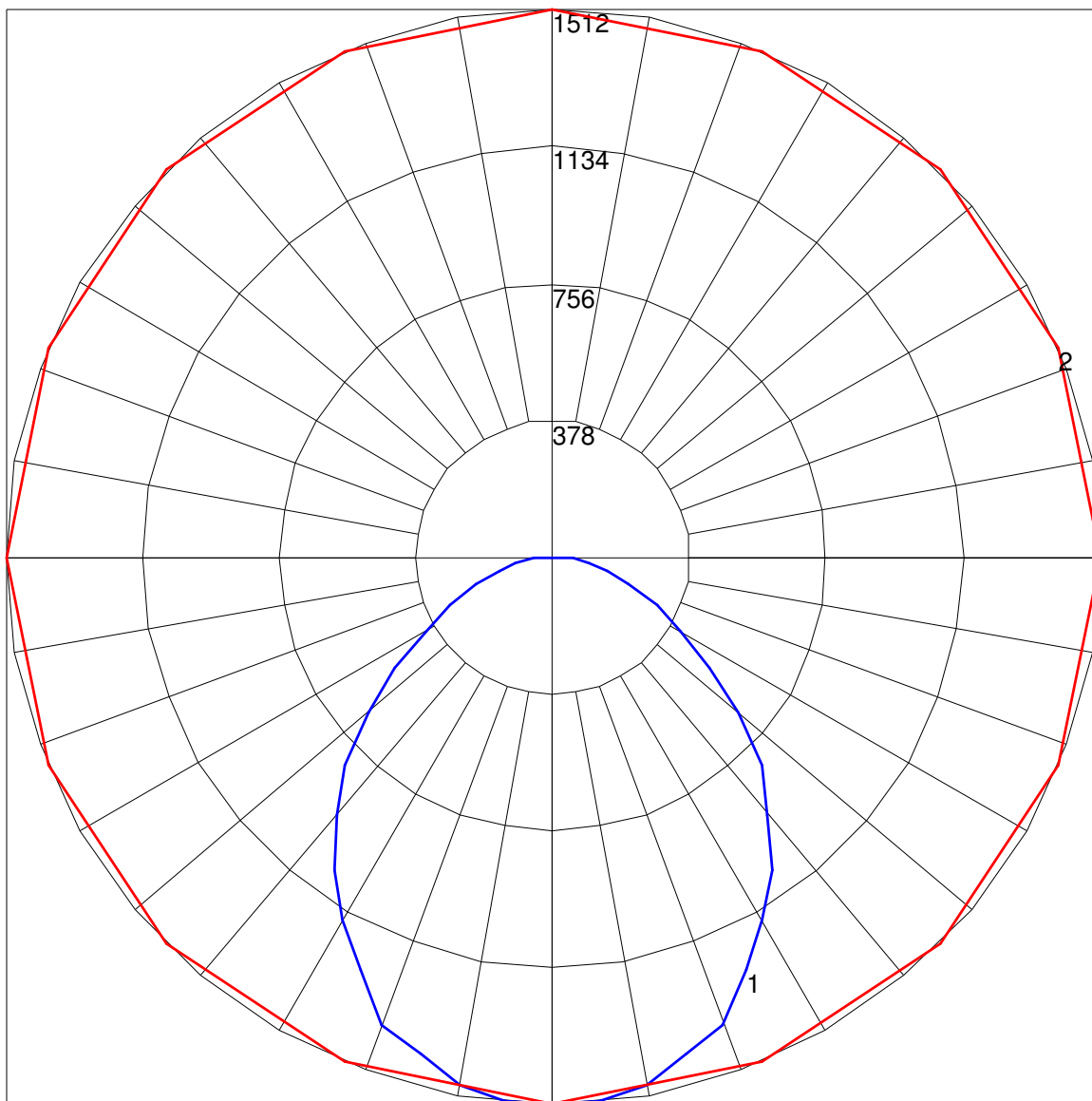
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**UGR TABLE - CORRECTED**

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	15.7	17.2	16.0	17.5	17.8	14.6	16.1	14.9	16.4	16.7
	3H	17.1	18.4	17.5	18.8	19.1	16.0	17.4	16.4	17.7	18.1
	4H	17.6	18.9	18.0	19.2	19.6	16.6	17.9	17.0	18.2	18.6
	6H	18.1	19.2	18.5	19.6	20.0	17.2	18.3	17.6	18.7	19.1
	8H	18.2	19.4	18.7	19.7	20.1	17.4	18.5	17.8	18.9	19.3
	12H	18.4	19.5	18.8	19.8	20.3	17.6	18.7	18.0	19.0	19.5
4H	2H	16.0	17.3	16.4	17.7	18.0	15.1	16.4	15.5	16.8	17.1
	3H	17.7	18.7	18.1	19.1	19.5	16.8	17.9	17.2	18.3	18.7
	4H	18.3	19.3	18.8	19.7	20.1	17.5	18.5	17.9	18.9	19.3
	6H	18.9	19.8	19.4	20.2	20.7	18.2	19.0	18.7	19.5	19.9
	8H	19.2	20.0	19.6	20.4	20.9	18.5	19.3	19.0	19.7	20.2
	12H	19.4	20.1	19.9	20.6	21.0	18.8	19.5	19.2	19.9	20.4
8H	4H	18.5	19.3	19.0	19.8	20.2	17.8	18.6	18.3	19.0	19.5
	6H	19.3	19.9	19.8	20.4	20.9	18.7	19.3	19.1	19.8	20.3
	8H	19.6	20.2	20.1	20.7	21.2	19.1	19.6	19.6	20.1	20.6
	12H	19.9	20.4	20.4	20.9	21.5	19.4	19.9	19.9	20.4	21.0
12H	4H	18.6	19.3	19.0	19.7	20.2	17.8	18.6	18.3	19.0	19.5
	6H	19.4	19.9	19.9	20.4	20.9	18.8	19.3	19.3	19.8	20.3
	8H	19.7	20.3	20.2	20.7	21.3	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1511.891 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.)