



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-840-SAF12125-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18124.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 10-19-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMINAIRE] 2x2' RECESSED LED TROFFER LUMINAIRE  
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN  
 [LUMCAT] 50G-S22-L26-840-SAF12125-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K 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	2781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	21.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3085	3149	3279
55	2542	2563	2639
65	2023	1980	2065
75	1771	1707	1701
85	1747	1609	1643

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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>	1213.527	1213.527	1213.527	1213.527	1213.527
<b>5</b>	1211.769	1210.889	1208.251	1205.613	1204.734
<b>10</b>	1187.146	1188.026	1188.026	1185.827	1189.784
<b>15</b>	1165.602	1167.360	1173.516	1172.637	1178.792
<b>20</b>	1075.467	1086.019	1089.976	1094.813	1104.925
<b>25</b>	1024.463	1037.654	1043.809	1051.284	1065.354
<b>30</b>	944.441	953.234	966.865	973.900	993.685
<b>35</b>	845.512	851.228	868.375	884.204	902.671
<b>40</b>	742.186	745.264	760.653	776.482	796.267
<b>45</b>	636.222	635.783	649.413	656.888	676.234
<b>50</b>	528.940	529.379	539.492	537.294	557.519
<b>55</b>	425.174	426.054	428.692	426.933	441.443
<b>60</b>	328.444	327.564	327.564	323.168	336.798
<b>65</b>	249.301	245.344	244.025	242.705	254.577
<b>70</b>	185.986	182.029	179.391	179.831	183.348
<b>75</b>	133.664	131.026	128.827	127.508	128.388
<b>80</b>	87.497	87.057	85.738	82.661	83.100
<b>85</b>	44.408	46.167	40.891	40.891	41.770
<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	440.99	N.A.	15.90
0-30	919.26	N.A.	33.10
0-40	1461.87	N.A.	52.60
0-60	2348.15	N.A.	84.40
0-80	2734.65	N.A.	98.30
0-90	2781.13	N.A.	100.00
10-90	2666.47	N.A.	95.90
20-40	1020.88	N.A.	36.70
20-50	1522.25	N.A.	54.70
40-70	1134.00	N.A.	40.80
60-80	386.50	N.A.	13.90
70-80	138.78	N.A.	5.00
80-90	46.47	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	2781.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.66
10-20	326.33
20-30	478.28
30-40	542.60
40-50	501.37
50-60	384.92
60-70	247.72
70-80	138.78
80-90	46.47
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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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	14.7	16.2	15.1	16.5	16.8	UGR Viewed Endwise	14.7	16.2	15.1	16.5	16.9
	3H	16.1	17.5	16.5	17.8	18.2		16.1	17.5	16.5	17.8	18.2
	4H	16.7	18.0	17.1	18.3	18.7		16.6	17.9	17.0	18.3	18.7
	6H	17.2	18.4	17.6	18.7	19.1		17.1	18.3	17.5	18.7	19.0
	8H	17.4	18.5	17.8	18.9	19.3		17.3	18.4	17.7	18.8	19.2
	12H	17.5	18.6	17.9	19.0	19.4		17.4	18.5	17.8	18.9	19.3

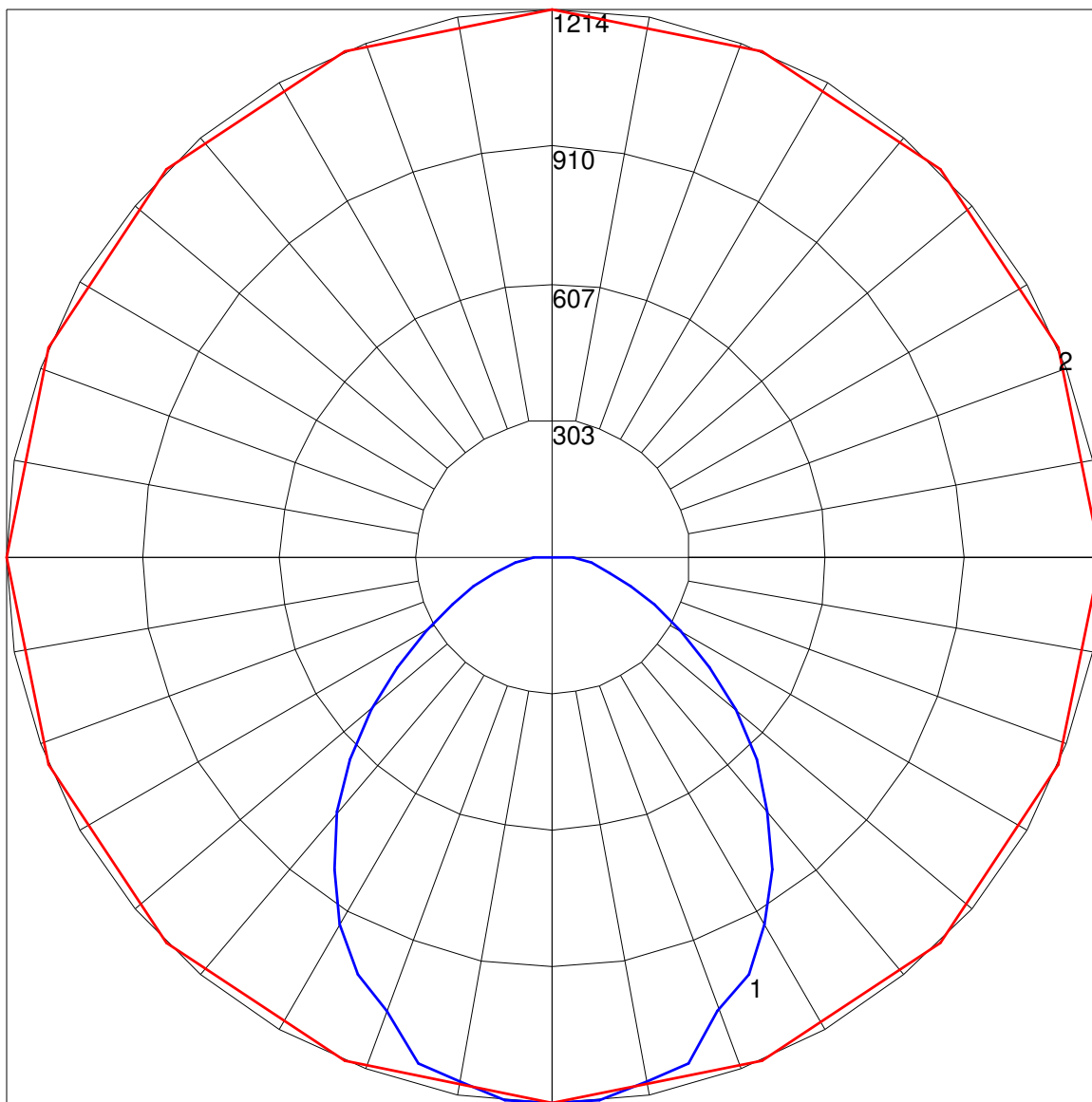
4H	2H	15.1	16.4	15.5	16.8	17.2	15.1	16.4	15.5	16.8	17.2
	3H	16.8	17.9	17.2	18.3	18.7	16.8	17.9	17.2	18.3	18.7
	4H	17.5	18.5	17.9	18.9	19.3	17.5	18.4	17.9	18.8	19.3
	6H	18.2	19.0	18.6	19.4	19.9	18.1	18.9	18.5	19.3	19.8
	8H	18.4	19.2	18.9	19.6	20.1	18.3	19.1	18.8	19.5	20.0
	12H	18.6	19.3	19.1	19.8	20.3	18.5	19.2	19.0	19.7	20.1

8H	4H	17.8	18.6	18.2	19.0	19.5	17.7	18.5	18.2	19.0	19.4
	6H	18.6	19.2	19.1	19.7	20.2	18.5	19.1	19.0	19.6	20.1
	8H	18.9	19.5	19.4	20.0	20.5	18.8	19.4	19.3	19.9	20.4
	12H	19.2	19.8	19.8	20.3	20.8	19.1	19.6	19.6	20.1	20.6

12H	4H	17.8	18.5	18.3	19.0	19.5	17.8	18.5	18.2	18.9	19.4
	6H	18.6	19.2	19.2	19.7	20.2	18.5	19.1	19.1	19.6	20.1
	8H	19.1	19.6	19.6	20.1	20.6	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1213.527 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.)