



## 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] 18-DEC-2020  
 [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	2709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	3005	3067	3194
55	2476	2496	2570
65	1970	1929	2012
75	1725	1662	1657
85	1702	1567	1601

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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>	1182.109	1182.109	1182.109	1182.109	1182.109
<b>5</b>	1180.396	1179.539	1176.970	1174.400	1173.543
<b>10</b>	1156.411	1157.268	1157.268	1155.126	1158.981
<b>15</b>	1135.424	1137.138	1143.134	1142.277	1148.273
<b>20</b>	1047.623	1057.902	1061.757	1066.468	1076.319
<b>25</b>	997.940	1010.789	1016.785	1024.066	1037.772
<b>30</b>	919.989	928.555	941.833	948.685	967.959
<b>35</b>	823.622	829.190	845.893	861.312	879.301
<b>40</b>	722.971	725.969	740.960	756.379	775.652
<b>45</b>	619.751	619.322	632.600	639.881	658.726
<b>50</b>	515.245	515.674	525.525	523.383	543.085
<b>55</b>	414.166	415.023	417.593	415.880	430.014
<b>60</b>	319.940	319.084	319.084	314.801	328.078
<b>65</b>	242.846	238.992	237.707	236.422	247.986
<b>70</b>	181.171	177.316	174.747	175.175	178.601
<b>75</b>	130.203	127.634	125.492	124.207	125.064
<b>80</b>	85.232	84.803	83.519	80.520	80.949
<b>85</b>	43.258	44.972	39.832	39.832	40.689
<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	429.57	N.A.	15.90
0-30	895.46	N.A.	33.10
0-40	1424.02	N.A.	52.60
0-60	2287.36	N.A.	84.40
0-80	2663.85	N.A.	98.30
0-90	2709.12	N.A.	100.00
10-90	2597.43	N.A.	95.90
20-40	994.45	N.A.	36.70
20-50	1482.84	N.A.	54.70
40-70	1104.65	N.A.	40.80
60-80	376.49	N.A.	13.90
70-80	135.19	N.A.	5.00
80-90	45.27	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	2709.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.69
10-20	317.88
20-30	465.89
30-40	528.55
40-50	488.39
50-60	374.95
60-70	241.30
70-80	135.19
80-90	45.27
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

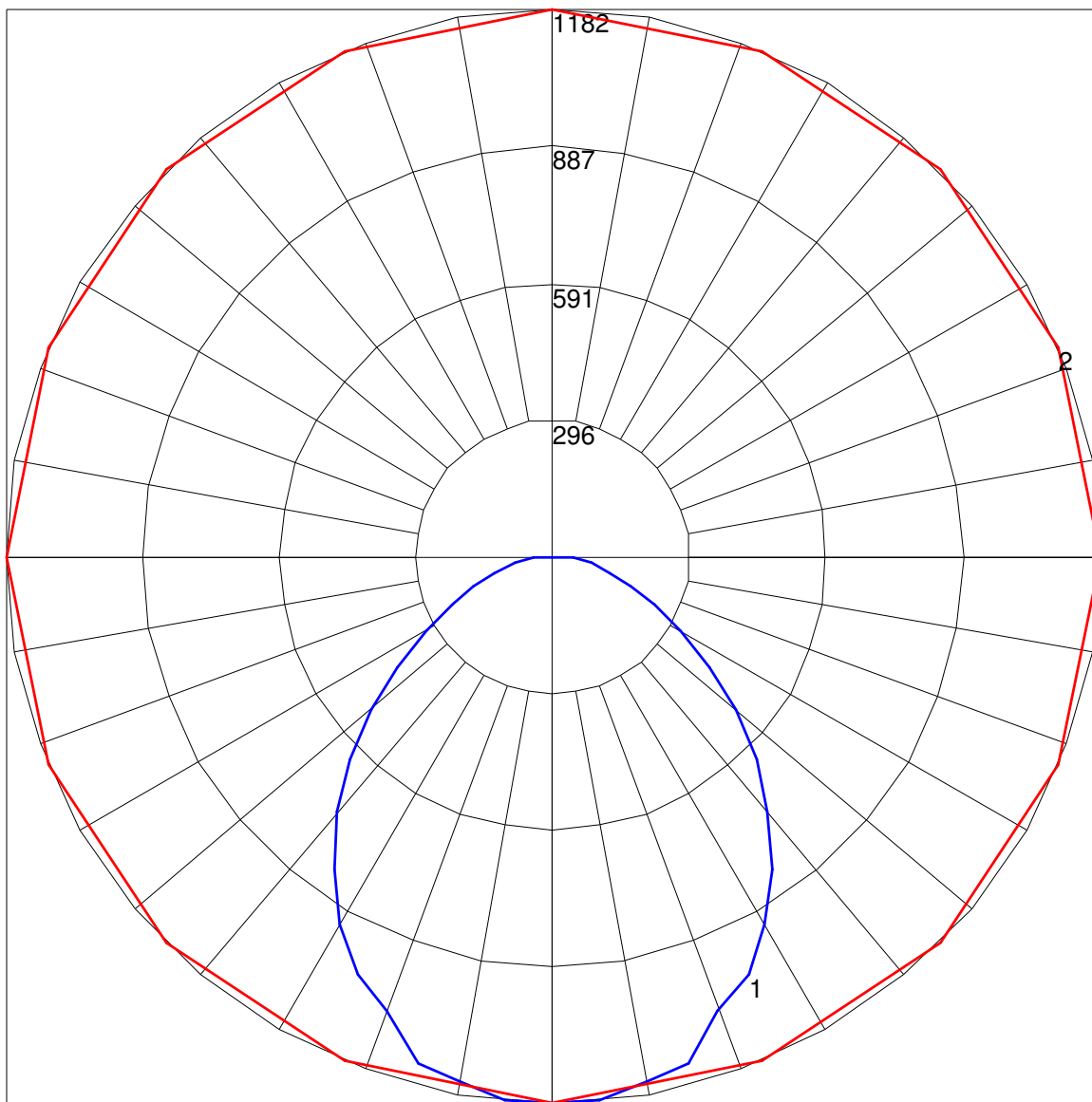
X=2H	Y=2H	14.6	16.1	15.0	16.4	16.7	14.6	16.1	15.0	16.4	16.8
	3H	16.0	17.4	16.4	17.7	18.1	16.0	17.4	16.4	17.7	18.1
	4H	16.6	17.9	17.0	18.2	18.6	16.5	17.8	16.9	18.2	18.6
	6H	17.1	18.3	17.5	18.6	19.0	17.0	18.2	17.4	18.6	18.9
	8H	17.3	18.4	17.7	18.8	19.2	17.2	18.3	17.6	18.7	19.1
	12H	17.4	18.5	17.8	18.9	19.3	17.3	18.4	17.7	18.8	19.2

UGR Viewed Endwise

4H	2H	15.0	16.3	15.4	16.7	17.1	15.0	16.3	15.4	16.7	17.1
	3H	16.7	17.8	17.1	18.2	18.6	16.7	17.8	17.1	18.2	18.6
	4H	17.4	18.4	17.8	18.8	19.2	17.4	18.3	17.8	18.7	19.2
	6H	18.1	18.9	18.5	19.3	19.8	18.0	18.8	18.4	19.2	19.7
	8H	18.3	19.1	18.8	19.5	20.0	18.2	19.0	18.7	19.4	19.9
	12H	18.5	19.2	19.0	19.7	20.2	18.4	19.1	18.9	19.6	20.0
8H	4H	17.7	18.5	18.1	18.9	19.4	17.6	18.4	18.1	18.9	19.3
	6H	18.5	19.1	19.0	19.6	20.1	18.4	19.0	18.9	19.5	20.0
	8H	18.8	19.4	19.3	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	12H	19.1	19.7	19.7	20.2	20.7	19.0	19.5	19.5	20.0	20.5
12H	4H	17.7	18.4	18.2	18.9	19.4	17.7	18.4	18.1	18.8	19.3
	6H	18.5	19.1	19.1	19.6	20.1	18.4	19.0	19.0	19.5	20.0
	8H	19.0	19.5	19.5	20.0	20.5	18.8	19.3	19.3	19.8	20.4

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1182.109 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.)