

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-840-SAF12125-(L32)-EM10W-DIM-UNV\_EMER MODE.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] 04-08-2022  
[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-L43-840-SAF12125-(L32)-EM10W-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	1200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	10
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	1331	1359	1415
55	1097	1106	1139
65	873	854	891
75	764	736	734
85	754	694	709

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	523.636	523.636	523.636	523.636	523.636
<b>5</b>	522.877	522.498	521.360	520.221	519.842
<b>10</b>	512.253	512.632	512.632	511.684	513.391
<b>15</b>	502.956	503.715	506.371	505.992	508.648
<b>20</b>	464.063	468.617	470.324	472.411	476.775
<b>25</b>	442.055	447.747	450.403	453.628	459.700
<b>30</b>	407.526	411.320	417.202	420.237	428.775
<b>35</b>	364.838	367.304	374.704	381.534	389.502
<b>40</b>	320.253	321.581	328.221	335.051	343.589
<b>45</b>	274.530	274.340	280.221	283.447	291.794
<b>50</b>	228.237	228.427	232.790	231.842	240.569
<b>55</b>	183.462	183.842	184.980	184.221	190.482
<b>60</b>	141.723	141.344	141.344	139.447	145.328
<b>65</b>	107.573	105.866	105.296	104.727	109.850
<b>70</b>	80.253	78.545	77.407	77.597	79.115
<b>75</b>	57.676	56.538	55.589	55.020	55.399
<b>80</b>	37.755	37.565	36.996	35.668	35.858
<b>85</b>	19.162	19.921	17.644	17.644	18.024
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	190.29	N.A.	15.90
0-30	396.66	N.A.	33.10
0-40	630.79	N.A.	52.60
0-60	1013.23	N.A.	84.40
0-80	1180.00	N.A.	98.30
0-90	1200.05	N.A.	100.00
10-90	1150.58	N.A.	95.90
20-40	440.51	N.A.	36.70
20-50	656.85	N.A.	54.70
40-70	489.32	N.A.	40.80
60-80	166.77	N.A.	13.90
70-80	59.88	N.A.	5.00
80-90	20.05	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	1200.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.47
10-20	140.81
20-30	206.38
30-40	234.13
40-50	216.34
50-60	166.09
60-70	106.89
70-80	59.88
80-90	20.05
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	11.7	13.2	12.1	13.5	13.9	11.7	13.2	12.1	13.5	13.9
	3H	13.1	14.5	13.5	14.8	15.2	13.1	14.5	13.5	14.8	15.2
	4H	13.7	15.0	14.1	15.3	15.7	13.6	14.9	14.0	15.3	15.7
	6H	14.2	15.4	14.6	15.7	16.1	14.1	15.3	14.5	15.7	16.1
	8H	14.4	15.5	14.8	15.9	16.3	14.3	15.4	14.7	15.8	16.2
	12H	14.5	15.6	15.0	16.0	16.4	14.4	15.5	14.8	15.9	16.3

### UGR Viewed Endwise

4H	2H	12.1	13.4	12.5	13.8	14.2	12.1	13.4	12.5	13.8	14.2
	3H	13.8	14.9	14.2	15.3	15.7	13.8	14.9	14.2	15.3	15.7
	4H	14.5	15.5	14.9	15.9	16.3	14.5	15.4	14.9	15.8	16.3
	6H	15.2	16.0	15.6	16.5	16.9	15.1	15.9	15.5	16.3	16.8
	8H	15.4	16.2	15.9	16.7	17.1	15.3	16.1	15.8	16.5	17.0
	12H	15.6	16.3	16.1	16.8	17.3	15.5	16.2	16.0	16.7	17.1

8H	4H	14.8	15.6	15.2	16.0	16.5	14.7	15.5	15.2	16.0	16.4
	6H	15.6	16.2	16.1	16.7	17.2	15.5	16.1	16.0	16.6	17.1
	8H	15.9	16.5	16.4	17.0	17.5	15.8	16.4	16.3	16.9	17.4
	12H	16.3	16.8	16.8	17.3	17.8	16.1	16.6	16.6	17.1	17.6

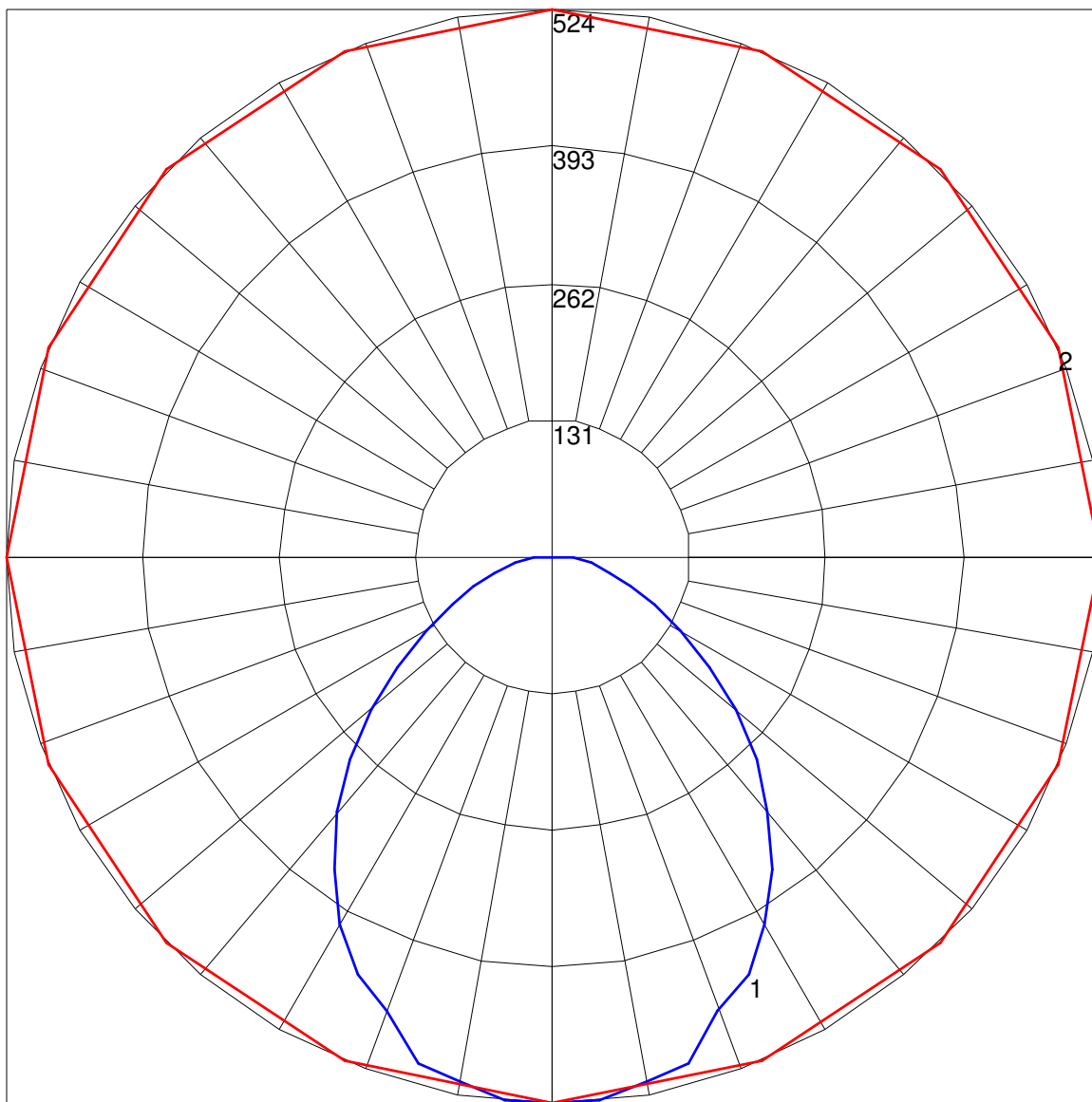
12H	4H	14.8	15.5	15.3	16.0	16.5	14.8	15.5	15.3	16.0	16.4
	6H	15.6	16.2	16.2	16.7	17.2	15.5	16.1	16.1	16.6	17.1
	8H	16.1	16.6	16.6	17.1	17.6	15.9	16.4	16.4	16.9	17.5

Maximum UGR = 17.8

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## POLAR GRAPH



Maximum Candela = 523.636 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.)