

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-840-SAF12125-(L32)-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  
[ISSUE DATE] 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)-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	3299
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	27.6
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	3660	3735	3890
55	3015	3040	3130
65	2399	2349	2450
75	2101	2025	2018
85	2072	1908	1949

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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>	1439.564	1439.564	1439.564	1439.564	1439.564
<b>5</b>	1437.478	1436.434	1433.305	1430.175	1429.132
<b>10</b>	1408.269	1409.312	1409.312	1406.704	1411.398
<b>15</b>	1382.712	1384.798	1392.100	1391.057	1398.359
<b>20</b>	1275.787	1288.305	1293.000	1298.737	1310.733
<b>25</b>	1215.284	1230.931	1238.234	1247.100	1263.791
<b>30</b>	1120.356	1130.788	1146.957	1155.302	1178.773
<b>35</b>	1003.000	1009.781	1030.123	1048.900	1070.806
<b>40</b>	880.429	884.080	902.335	921.112	944.583
<b>45</b>	754.728	754.206	770.375	779.242	802.192
<b>50</b>	627.462	627.984	639.980	637.372	661.365
<b>55</b>	504.369	505.412	508.542	506.455	523.667
<b>60</b>	389.621	388.578	388.578	383.362	399.531
<b>65</b>	295.736	291.042	289.478	287.913	301.995
<b>70</b>	220.629	215.935	212.805	213.327	217.499
<b>75</b>	158.561	155.431	152.823	151.259	152.302
<b>80</b>	103.795	103.273	101.708	98.057	98.579
<b>85</b>	52.680	54.766	48.507	48.507	49.550
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	523.13	N.A.	15.90
0-30	1090.49	N.A.	33.10
0-40	1734.16	N.A.	52.60
0-60	2785.53	N.A.	84.40
0-80	3244.02	N.A.	98.30
0-90	3299.15	N.A.	100.00
10-90	3163.14	N.A.	95.90
20-40	1211.03	N.A.	36.70
20-50	1805.79	N.A.	54.70
40-70	1345.23	N.A.	40.80
60-80	458.49	N.A.	13.90
70-80	164.63	N.A.	5.00
80-90	55.13	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	3299.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.01
10-20	387.11
20-30	567.36
30-40	643.67
40-50	594.76
50-60	456.62
60-70	293.86
70-80	164.63
80-90	55.13
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	15.2	16.7	15.6	17.0	17.3	UGR Viewed Endwise	15.2	16.7	15.6	17.0	17.4
	3H	16.6	18.0	17.0	18.3	18.7		16.6	18.0	17.0	18.3	18.7
	4H	17.2	18.5	17.6	18.8	19.2		17.1	18.4	17.5	18.8	19.2
	6H	17.7	18.9	18.1	19.2	19.6		17.6	18.8	18.0	19.2	19.5
	8H	17.9	19.0	18.3	19.4	19.8		17.8	18.9	18.2	19.3	19.7
	12H	18.0	19.1	18.4	19.5	19.9		17.9	19.0	18.3	19.4	19.8

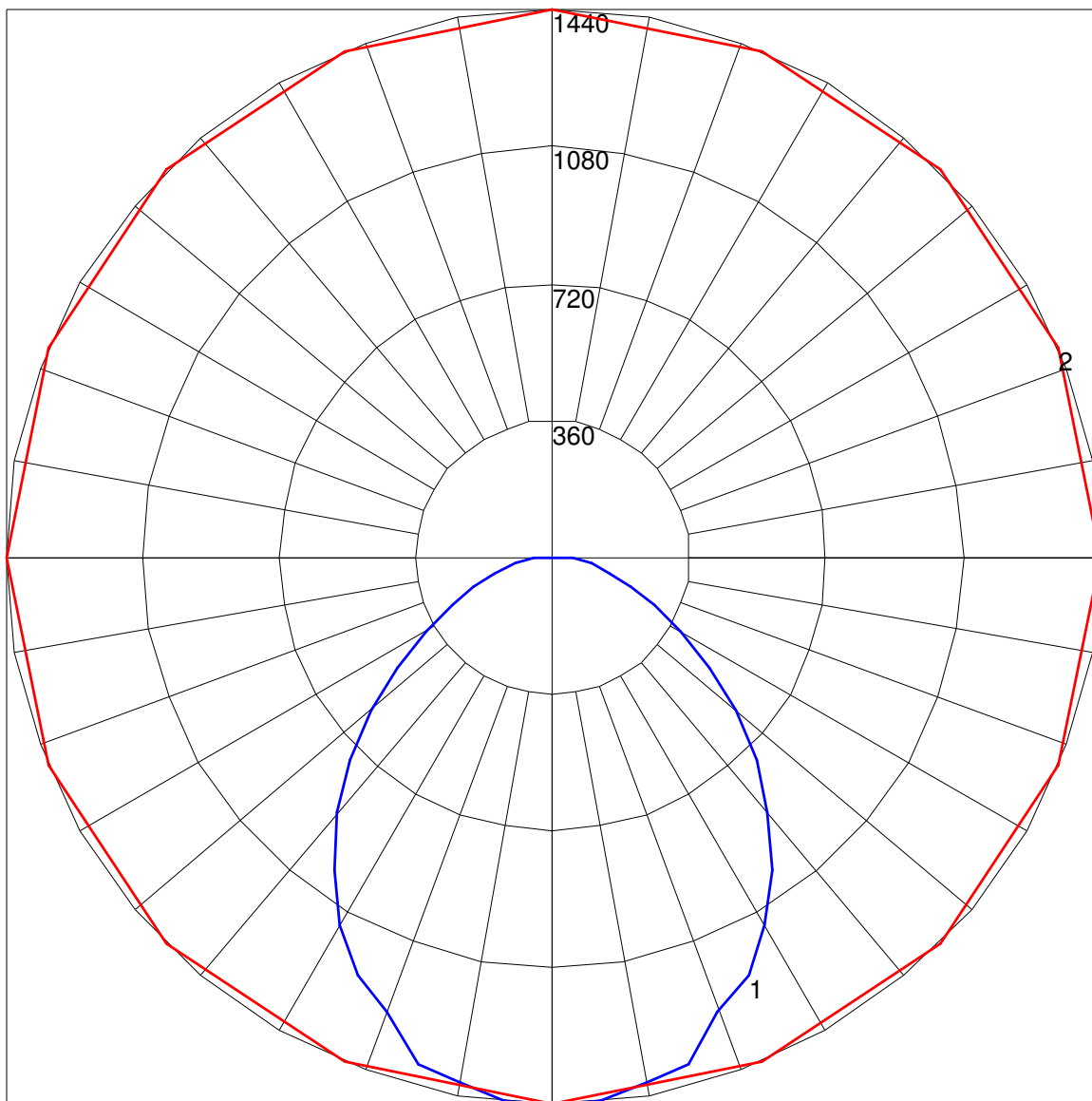
4H	2H	15.6	16.9	16.0	17.3	17.7	15.6	16.9	16.0	17.3	17.7
	3H	17.3	18.4	17.7	18.8	19.2	17.3	18.4	17.7	18.8	19.2
	4H	18.0	19.0	18.4	19.4	19.8	18.0	18.9	18.4	19.3	19.8
	6H	18.7	19.5	19.1	19.9	20.4	18.6	19.4	19.0	19.8	20.3
	8H	18.9	19.7	19.4	20.1	20.6	18.8	19.6	19.3	20.0	20.5
	12H	19.1	19.8	19.6	20.3	20.8	19.0	19.7	19.5	20.2	20.6

8H	4H	18.3	19.1	18.7	19.5	20.0	18.2	19.0	18.7	19.5	19.9
	6H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.1	20.6
	8H	19.4	20.0	19.9	20.5	21.0	19.3	19.9	19.8	20.4	20.9
	12H	19.7	20.3	20.3	20.8	21.3	19.6	20.1	20.1	20.6	21.1

12H	4H	18.3	19.0	18.8	19.5	20.0	18.3	19.0	18.7	19.4	19.9
	6H	19.1	19.7	19.7	20.2	20.7	19.0	19.6	19.6	20.1	20.6
	8H	19.6	20.1	20.1	20.6	21.1	19.4	19.9	19.9	20.4	21.0

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 1439.564 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.)