



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-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  
 [ISSUE DATE] 31-JAN-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMINAIRE] 144 LEDS (2 BOARDS) 2x2' RECESSED TROFFER LUMINAIRE  
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN  
 [LUMCAT] 50G-S22-L26-835-SAF12125-DIM-UNV  
 [ \_SEARCH\_SOURCE TYPE]LED  
 [ \_SEARCH\_APPLICATION]INDOOR,DIRECT  
 [ \_SEARCH\_MOUNTING]RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	2917	2978	3101
55	2404	2423	2496
65	1913	1872	1953
75	1675	1614	1608
85	1652	1521	1554

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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>	1147.636	1147.636	1147.636	1147.636	1147.636
<b>5</b>	1145.973	1145.141	1142.646	1140.152	1139.320
<b>10</b>	1122.688	1123.519	1123.519	1121.440	1125.182
<b>15</b>	1102.313	1103.976	1109.797	1108.966	1114.787
<b>20</b>	1017.072	1027.051	1030.793	1035.367	1044.931
<b>25</b>	968.838	981.312	987.133	994.202	1007.508
<b>30</b>	893.160	901.477	914.367	921.020	939.731
<b>35</b>	799.603	805.009	821.225	836.194	853.658
<b>40</b>	701.888	704.798	719.352	734.321	753.032
<b>45</b>	601.677	601.262	614.152	621.220	639.516
<b>50</b>	500.220	500.635	510.199	508.120	527.247
<b>55</b>	402.088	402.920	405.415	403.752	417.473
<b>60</b>	310.610	309.779	309.779	305.620	318.511
<b>65</b>	235.764	232.022	230.775	229.527	240.754
<b>70</b>	175.888	172.145	169.651	170.066	173.393
<b>75</b>	126.406	123.911	121.832	120.585	121.417
<b>80</b>	82.746	82.330	81.083	78.172	78.588
<b>85</b>	41.997	43.660	38.670	38.670	39.502
<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	417.04	N.A.	15.90
0-30	869.35	N.A.	33.10
0-40	1382.49	N.A.	52.60
0-60	2220.66	N.A.	84.40
0-80	2586.17	N.A.	98.30
0-90	2630.12	N.A.	100.00
10-90	2521.69	N.A.	95.90
20-40	965.45	N.A.	36.70
20-50	1439.59	N.A.	54.70
40-70	1072.43	N.A.	40.80
60-80	365.51	N.A.	13.90
70-80	131.25	N.A.	5.00
80-90	43.95	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	2630.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.43
10-20	308.61
20-30	452.31
30-40	513.14
40-50	474.15
50-60	364.02
60-70	234.27
70-80	131.25
80-90	43.95
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	39
1	42	41	39	38	41	40	38	37	38	37	36	37	36	35	35	35	34	33
2	39	36	33	31	38	35	33	31	34	32	30	33	31	30	31	30	29	28
3	36	32	29	27	35	31	29	26	30	28	26	29	27	25	28	26	25	24
4	33	29	25	23	32	28	25	23	27	24	22	26	24	22	25	23	22	21
5	30	26	22	20	30	25	22	20	24	22	20	24	21	19	23	21	19	18
6	28	23	20	18	27	23	20	18	22	19	17	22	19	17	21	19	17	16
7	26	21	18	16	26	21	18	16	20	18	16	20	17	15	19	17	15	15
8	24	19	16	14	24	19	16	14	19	16	14	18	16	14	18	16	14	13
9	23	18	15	13	22	18	15	13	17	15	13	17	14	13	16	14	13	12
10	22	17	14	12	21	16	14	12	16	13	12	16	13	12	15	13	12	11

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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	17.8	19.3	18.2	19.6	19.9	17.8	19.3	18.2	19.6	20.0
	3H	19.2	20.6	19.6	20.9	21.3	19.2	20.6	19.6	20.9	21.3
	4H	19.8	21.1	20.2	21.4	21.8	19.7	21.0	20.1	21.4	21.8
	6H	20.3	21.5	20.7	21.8	22.2	20.2	21.4	20.6	21.8	22.1
	8H	20.5	21.6	20.9	22.0	22.4	20.4	21.5	20.8	21.9	22.3
	12H	20.6	21.7	21.0	22.1	22.5	20.5	21.6	20.9	22.0	22.4

### UGR Viewed Endwise

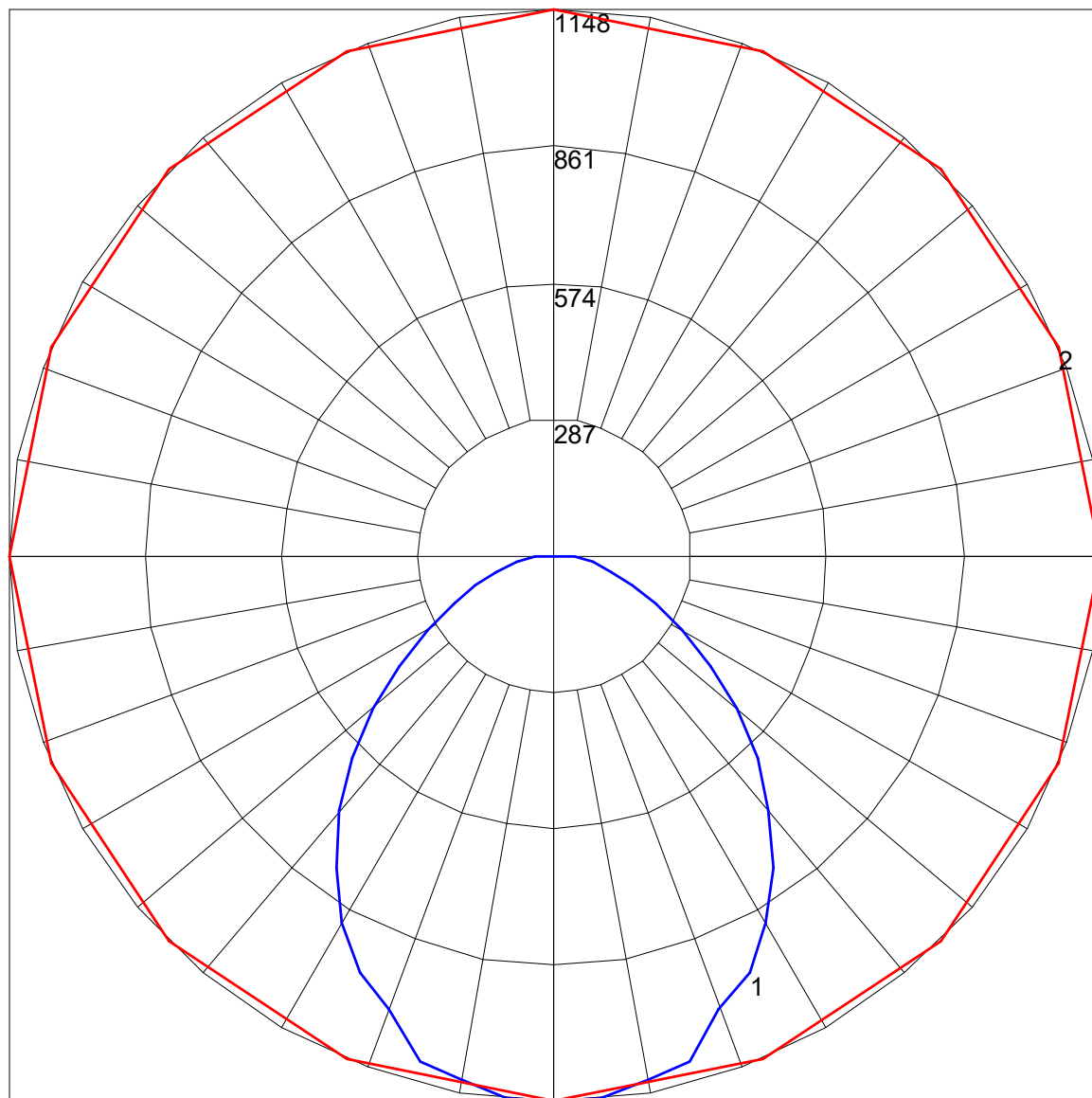
4H	2H	18.2	19.5	18.6	19.9	20.3	18.2	19.5	18.6	19.9	20.3
	3H	19.9	21.0	20.3	21.4	21.8	19.9	21.0	20.3	21.4	21.8
	4H	20.6	21.6	21.0	22.0	22.4	20.6	21.5	21.0	21.9	22.4
	6H	21.3	22.1	21.7	22.5	23.0	21.2	22.0	21.6	22.4	22.9
	8H	21.5	22.3	22.0	22.7	23.2	21.4	22.2	21.9	22.6	23.1
	12H	21.7	22.4	22.2	22.9	23.4	21.6	22.3	22.1	22.8	23.2

8H	4H	20.9	21.7	21.3	22.1	22.6	20.8	21.6	21.3	22.1	22.5
	6H	21.7	22.3	22.2	22.8	23.3	21.6	22.2	22.1	22.7	23.2
	8H	22.0	22.6	22.5	23.1	23.6	21.9	22.5	22.4	23.0	23.5
	12H	22.3	22.9	22.9	23.4	23.9	22.2	22.7	22.7	23.2	23.7

12H	4H	20.9	21.6	21.4	22.1	22.6	20.9	21.6	21.3	22.0	22.5
	6H	21.7	22.3	22.3	22.8	23.3	21.6	22.2	22.2	22.7	23.2
	8H	22.2	22.7	22.7	23.2	23.7	22.0	22.5	22.5	23.0	23.6

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1147.636 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.)