



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-(L19)-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] 07-02-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 50G-S22-L26-835-SAF12125-(L19)-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,CLASSROOM, COMMERCIAL, EDUCATIONAL,OFFICE, DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	16.2
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	2141	2185	2276
55	1764	1778	1831
65	1404	1374	1433
75	1229	1184	1180
85	1212	1116	1140

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-(L19)-DIM-UNV_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	842.182	842.182	842.182	842.182	842.182
5	840.961	840.351	838.520	836.689	836.079
10	823.873	824.484	824.484	822.958	825.704
15	808.922	810.142	814.414	813.804	818.076
20	746.368	753.692	756.438	759.794	766.813
25	710.972	720.126	724.398	729.586	739.350
30	655.437	661.540	670.999	675.881	689.613
35	586.781	590.748	602.648	613.633	626.449
40	515.073	517.209	527.889	538.874	552.605
45	441.535	441.230	450.689	455.877	469.303
50	367.081	367.387	374.405	372.879	386.915
55	295.069	295.679	297.510	296.289	306.359
60	227.938	227.328	227.328	224.277	233.736
65	173.013	170.267	169.352	168.436	176.675
70	129.073	126.327	124.496	124.802	127.243
75	92.762	90.931	89.406	88.490	89.100
80	60.723	60.417	59.502	57.366	57.671
85	30.819	32.040	28.378	28.378	28.988
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-(L19)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	306.04	N.A.	15.90
0-30	637.96	N.A.	33.10
0-40	1014.53	N.A.	52.60
0-60	1629.61	N.A.	84.40
0-80	1897.83	N.A.	98.30
0-90	1930.09	N.A.	100.00
10-90	1850.52	N.A.	95.90
20-40	708.48	N.A.	36.70
20-50	1056.43	N.A.	54.70
40-70	786.99	N.A.	40.80
60-80	268.23	N.A.	13.90
70-80	96.31	N.A.	5.00
80-90	32.25	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	1930.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.57
10-20	226.47
20-30	331.92
30-40	376.56
40-50	347.95
50-60	267.13
60-70	171.91
70-80	96.31
80-90	32.25
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-(L19)-DIM-UNV_.IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-SAF12125-(L19)-DIM-UNV_.IES

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	13.4	14.9	13.8	15.2	15.5	13.4	14.9	13.8	15.2	15.6
	3H	14.8	16.2	15.2	16.5	16.9	14.8	16.2	15.2	16.5	16.9
	4H	15.4	16.7	15.8	17.0	17.4	15.3	16.6	15.7	17.0	17.4
	6H	15.9	17.1	16.3	17.4	17.8	15.8	17.0	16.2	17.4	17.7
	8H	16.1	17.2	16.5	17.6	18.0	16.0	17.1	16.4	17.5	17.9
	12H	16.2	17.3	16.6	17.7	18.1	16.1	17.2	16.5	17.6	18.0

UGR Viewed Endwise

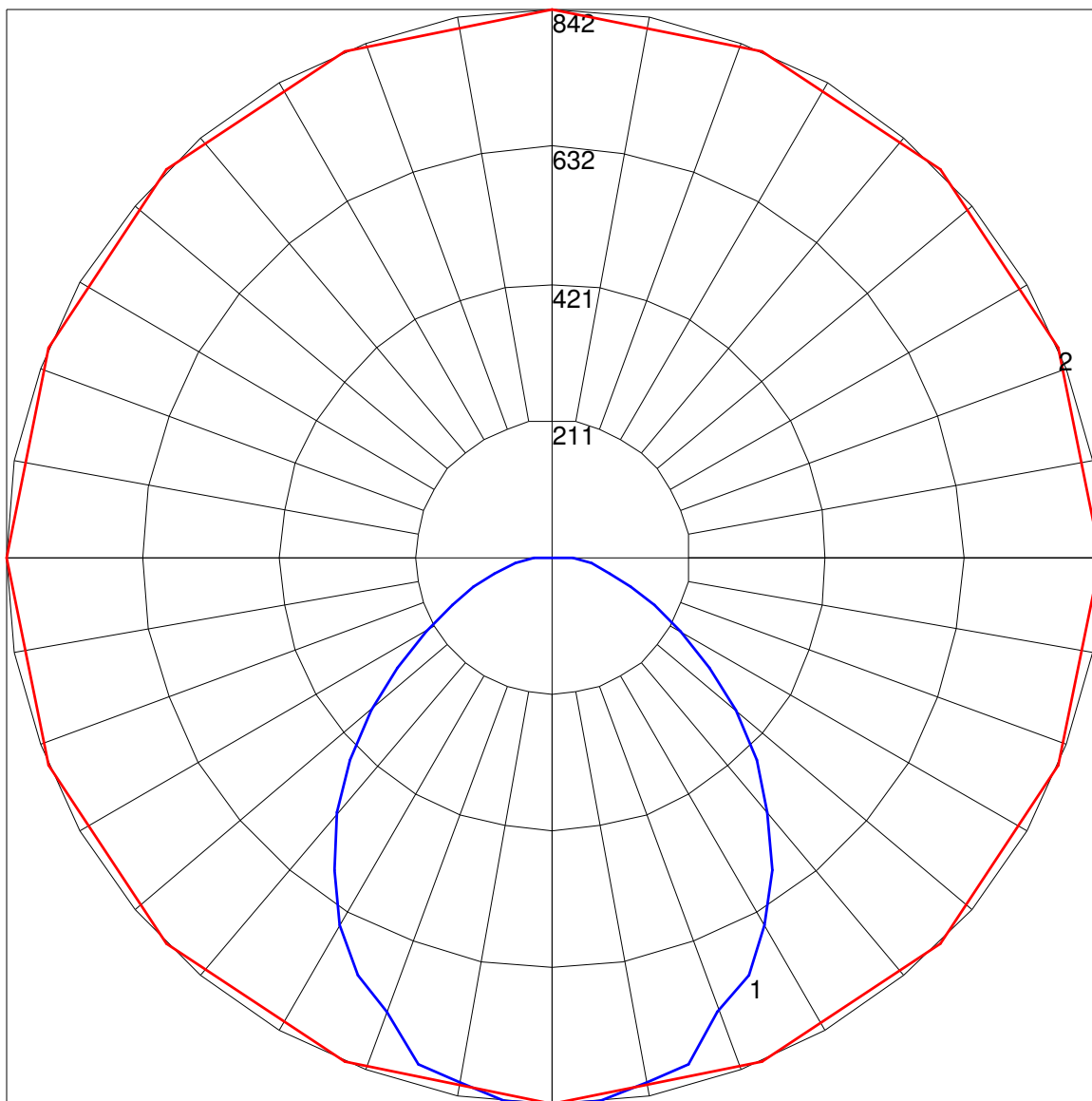
4H	2H	13.8	15.1	14.2	15.5	15.9	13.8	15.1	14.2	15.5	15.9
	3H	15.5	16.6	15.9	17.0	17.4	15.5	16.6	15.9	17.0	17.4
	4H	16.2	17.2	16.6	17.6	18.0	16.2	17.1	16.6	17.5	18.0
	6H	16.9	17.7	17.3	18.1	18.6	16.8	17.6	17.2	18.0	18.5
	8H	17.1	17.9	17.6	18.3	18.8	17.0	17.8	17.5	18.2	18.7
	12H	17.3	18.0	17.8	18.5	19.0	17.2	17.9	17.7	18.4	18.8

8H	4H	16.5	17.3	16.9	17.7	18.2	16.4	17.2	16.9	17.7	18.1
	6H	17.3	17.9	17.8	18.4	18.9	17.2	17.8	17.7	18.3	18.8
	8H	17.6	18.2	18.1	18.7	19.2	17.5	18.1	18.0	18.6	19.1
	12H	17.9	18.5	18.4	18.9	19.5	17.7	18.3	18.3	18.8	19.3

12H	4H	16.5	17.2	17.0	17.7	18.2	16.5	17.2	16.9	17.6	18.1
	6H	17.3	17.9	17.9	18.4	18.9	17.2	17.8	17.8	18.3	18.8
	8H	17.7	18.3	18.2	18.8	19.3	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 842.182 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.)