



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-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
[ISSUEDATE] 28-OCT-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-L43-835-SAF12125-(L32)-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K 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	3135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	26
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	3478	3550	3696
55	2865	2889	2975
65	2280	2232	2328
75	1996	1924	1917
85	1969	1813	1852

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S22-L43-835-SAF12125-(L32)-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	1368.000	1368.000	1368.000	1368.000	1368.000
5	1366.017	1365.026	1362.052	1359.078	1358.087
10	1338.261	1339.252	1339.252	1336.774	1341.235
15	1313.974	1315.957	1322.896	1321.904	1328.844
20	1212.365	1224.261	1228.722	1234.174	1245.574
25	1154.870	1169.739	1176.678	1185.104	1200.965
30	1064.661	1074.574	1089.939	1097.870	1120.174
35	953.139	959.583	978.913	996.757	1017.574
40	836.661	840.130	857.478	875.322	897.626
45	717.209	716.713	732.078	740.504	762.313
50	596.270	596.765	608.165	605.687	628.487
55	479.296	480.287	483.261	481.278	497.635
60	370.252	369.261	369.261	364.304	379.670
65	281.035	276.574	275.087	273.600	286.983
70	209.661	205.200	202.226	202.722	206.687
75	150.678	147.704	145.226	143.739	144.730
80	98.635	98.139	96.652	93.183	93.678
85	50.061	52.043	46.096	46.096	47.087
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S22-L43-835-SAF12125-(L32)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	497.12	N.A.	15.90
0-30	1036.28	N.A.	33.10
0-40	1647.95	N.A.	52.60
0-60	2647.06	N.A.	84.40
0-80	3082.75	N.A.	98.30
0-90	3135.14	N.A.	100.00
10-90	3005.89	N.A.	95.90
20-40	1150.83	N.A.	36.70
20-50	1716.02	N.A.	54.70
40-70	1278.35	N.A.	40.80
60-80	435.70	N.A.	13.90
70-80	156.45	N.A.	5.00
80-90	52.39	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	3135.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.25
10-20	367.87
20-30	539.16
30-40	611.67
40-50	565.19
50-60	433.92
60-70	279.25
70-80	156.45
80-90	52.39
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-L43-835-SAF12125-(L32)-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-L43-835-SAF12125-(L32)-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	15.1	16.6	15.5	16.9	17.2	15.1	16.6	15.5	16.9	17.3
	3H	16.5	17.9	16.9	18.2	18.6	16.5	17.9	16.9	18.2	18.6
	4H	17.1	18.4	17.5	18.7	19.1	17.0	18.3	17.4	18.7	19.1
	6H	17.6	18.8	18.0	19.1	19.5	17.5	18.7	17.9	19.1	19.4
	8H	17.8	18.9	18.2	19.3	19.7	17.7	18.8	18.1	19.2	19.6
	12H	17.9	19.0	18.3	19.4	19.8	17.8	18.9	18.2	19.3	19.7

UGR Viewed Endwise

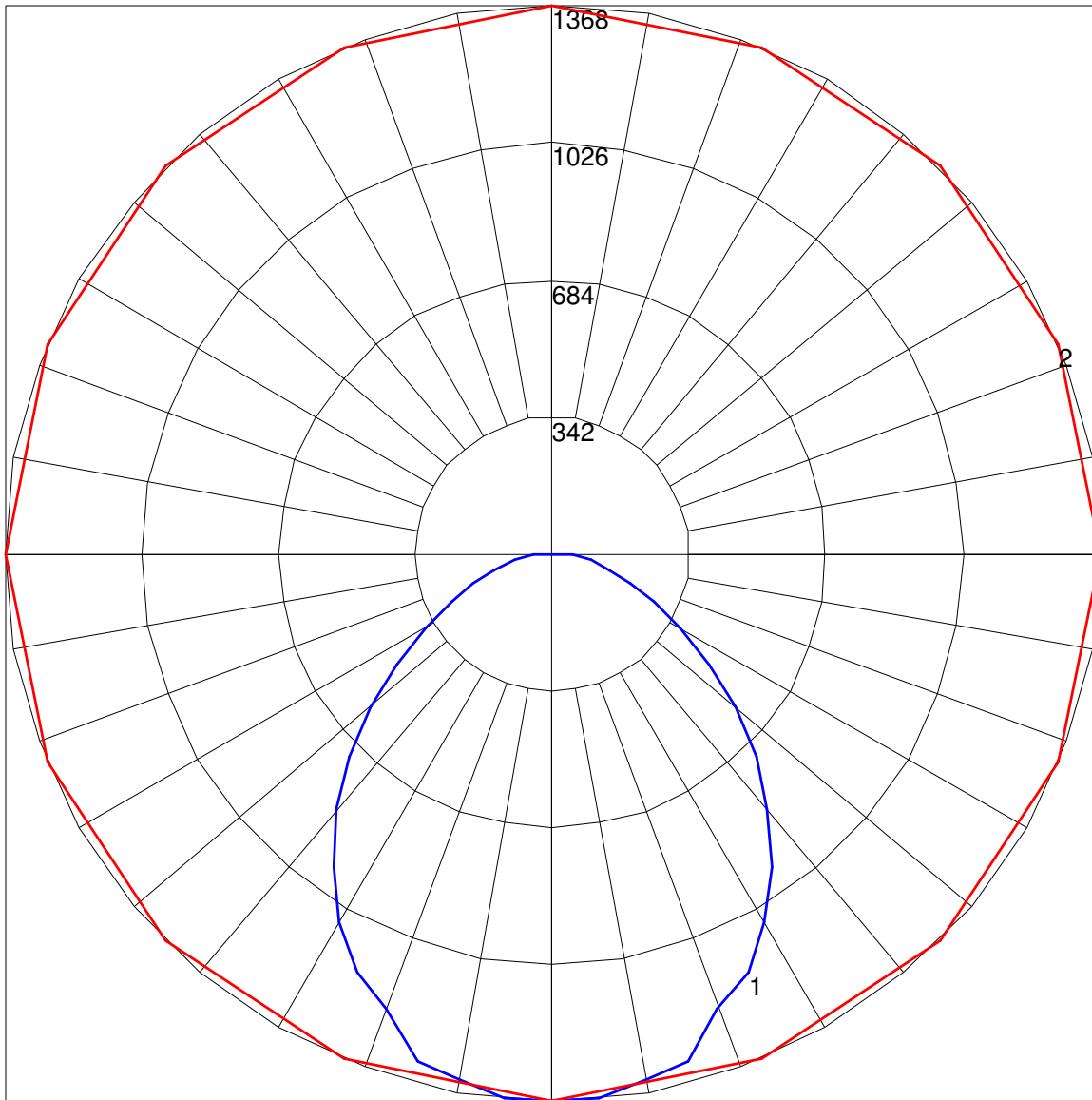
4H	2H	15.5	16.8	15.9	17.2	17.6	15.5	16.8	15.9	17.2	17.6
	3H	17.2	18.3	17.6	18.7	19.1	17.2	18.3	17.6	18.7	19.1
	4H	17.9	18.9	18.3	19.3	19.7	17.9	18.8	18.3	19.2	19.7
	6H	18.6	19.4	19.0	19.8	20.3	18.5	19.3	18.9	19.7	20.2
	8H	18.8	19.6	19.3	20.0	20.5	18.7	19.5	19.2	19.9	20.4
	12H	19.0	19.7	19.5	20.2	20.7	18.9	19.6	19.4	20.1	20.5

8H	4H	18.2	19.0	18.6	19.4	19.9	18.1	18.9	18.6	19.4	19.8
	6H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	8H	19.3	19.9	19.8	20.4	20.9	19.2	19.8	19.7	20.3	20.8
	12H	19.6	20.2	20.2	20.7	21.2	19.5	20.0	20.0	20.5	21.0

12H	4H	18.2	18.9	18.7	19.4	19.9	18.2	18.9	18.6	19.3	19.8
	6H	19.0	19.6	19.6	20.1	20.6	18.9	19.5	19.5	20.0	20.5
	8H	19.5	20.0	20.0	20.5	21.0	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 1368 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.)