



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-835-SAF12125-(L30)-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] 20-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-(L30)-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	3013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	3342	3412	3553
55	2754	2776	2859
65	2191	2145	2238
75	1918	1849	1843
85	1893	1743	1780

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1314.764	1314.764	1314.764	1314.764	1314.764
5	1312.858	1311.905	1309.047	1306.189	1305.236
10	1286.182	1287.134	1287.134	1284.753	1289.040
15	1262.840	1264.745	1271.414	1270.462	1277.131
20	1165.185	1176.618	1180.905	1186.145	1197.102
25	1109.927	1124.218	1130.887	1138.985	1154.229
30	1023.229	1032.756	1047.524	1055.145	1076.582
35	916.047	922.240	940.818	957.967	977.974
40	804.102	807.436	824.109	841.258	862.694
45	689.298	688.822	703.589	711.687	732.647
50	573.065	573.542	584.498	582.116	604.029
55	460.644	461.596	464.455	462.549	478.269
60	355.844	354.891	354.891	350.127	364.895
65	270.098	265.811	264.382	262.953	275.815
70	201.502	197.215	194.356	194.833	198.644
75	144.815	141.956	139.575	138.145	139.098
80	94.796	94.320	92.891	89.556	90.033
85	48.113	50.018	44.302	44.302	45.255
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	477.78	N.A.	15.90
0-30	995.95	N.A.	33.10
0-40	1583.82	N.A.	52.60
0-60	2544.04	N.A.	84.40
0-80	2962.78	N.A.	98.30
0-90	3013.14	N.A.	100.00
10-90	2888.91	N.A.	95.90
20-40	1106.04	N.A.	36.70
20-50	1649.24	N.A.	54.70
40-70	1228.61	N.A.	40.80
60-80	418.74	N.A.	13.90
70-80	150.36	N.A.	5.00
80-90	50.35	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	3013.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.22
10-20	353.55
20-30	518.18
30-40	587.87
40-50	543.19
50-60	417.03
60-70	268.38
70-80	150.36
80-90	50.35
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	14.9	16.4	15.3	16.7	17.0	14.9	16.4	15.3	16.7	17.1
	3H	16.3	17.7	16.7	18.0	18.4	16.3	17.7	16.7	18.0	18.4
	4H	16.9	18.2	17.3	18.5	18.9	16.8	18.1	17.2	18.5	18.9
	6H	17.4	18.6	17.8	18.9	19.3	17.3	18.5	17.7	18.9	19.2
	8H	17.6	18.7	18.0	19.1	19.5	17.5	18.6	17.9	19.0	19.4
	12H	17.7	18.8	18.1	19.2	19.6	17.6	18.7	18.0	19.1	19.5

UGR Viewed Endwise

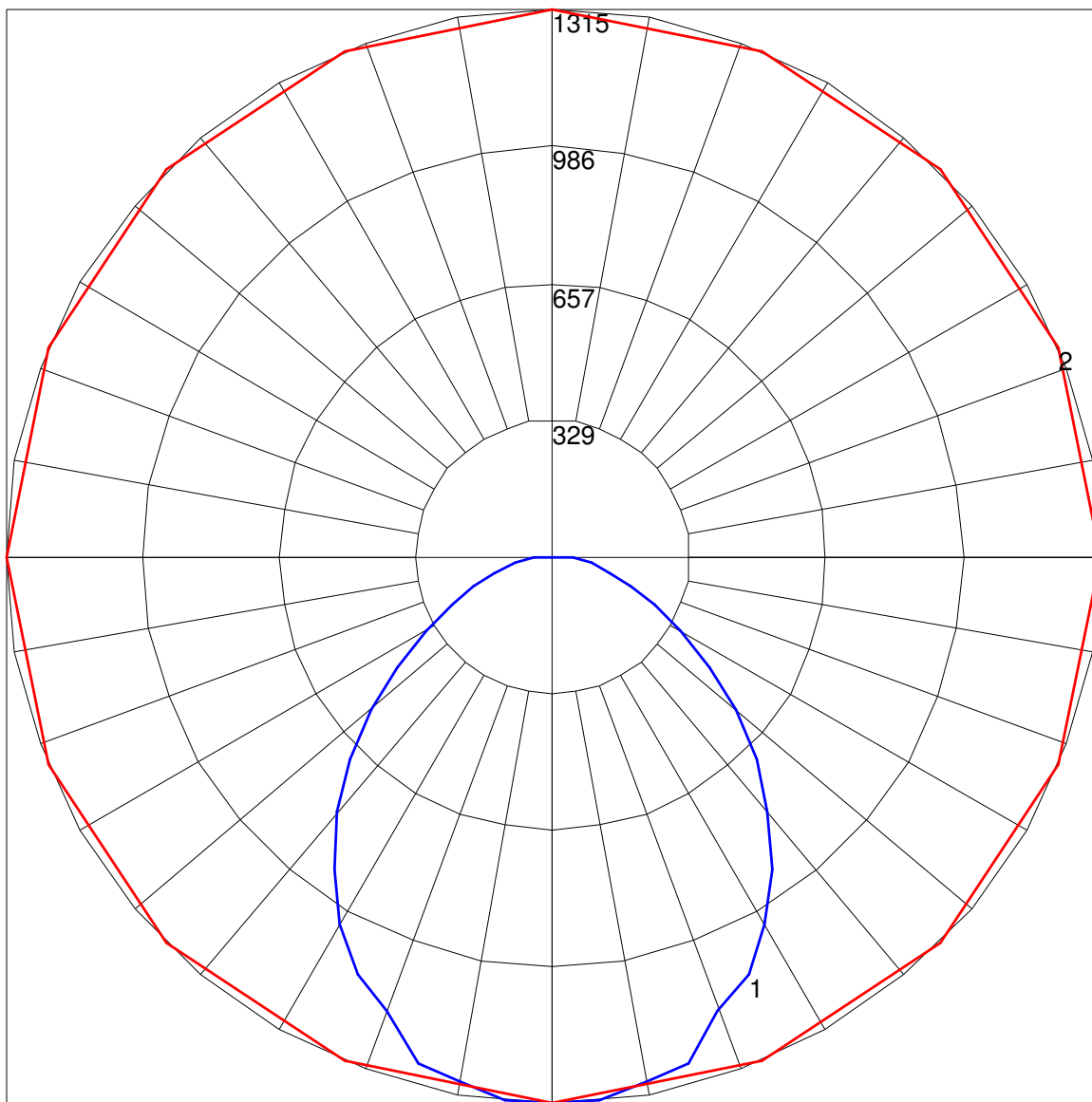
4H	2H	15.3	16.6	15.7	17.0	17.4	15.3	16.6	15.7	17.0	17.4
	3H	17.0	18.1	17.4	18.5	18.9	17.0	18.1	17.4	18.5	18.9
	4H	17.7	18.7	18.1	19.1	19.5	17.7	18.6	18.1	19.0	19.5
	6H	18.4	19.2	18.8	19.6	20.1	18.3	19.1	18.7	19.5	20.0
	8H	18.6	19.4	19.1	19.8	20.3	18.5	19.3	19.0	19.7	20.2
	12H	18.8	19.5	19.3	20.0	20.5	18.7	19.4	19.2	19.9	20.3

8H	4H	18.0	18.8	18.4	19.2	19.7	17.9	18.7	18.4	19.2	19.6
	6H	18.8	19.4	19.3	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	8H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.1	20.6
	12H	19.4	20.0	20.0	20.5	21.0	19.3	19.8	19.8	20.3	20.8

12H	4H	18.0	18.7	18.5	19.2	19.7	18.0	18.7	18.4	19.1	19.6
	6H	18.8	19.4	19.4	19.9	20.4	18.7	19.3	19.3	19.8	20.3
	8H	19.3	19.8	19.8	20.3	20.8	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 1314.764 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.)