



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L43-840-SAF12125-(L27)-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] 04-MAY-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-L43-840-SAF12125-(L27)-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	2708
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	23
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	3004	3066	3193
55	2475	2495	2570
65	1969	1928	2011
75	1724	1662	1656
85	1701	1566	1600

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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	1181.673	1181.673	1181.673	1181.673	1181.673
5	1179.960	1179.104	1176.535	1173.966	1173.110
10	1155.984	1156.841	1156.841	1154.700	1158.553
15	1135.005	1136.718	1142.712	1141.856	1147.850
20	1047.236	1057.512	1061.365	1066.074	1075.922
25	997.572	1010.416	1016.410	1023.688	1037.389
30	919.650	928.213	941.485	948.335	967.602
35	823.318	828.884	845.581	860.994	878.976
40	722.704	725.701	740.686	756.099	775.366
45	619.522	619.094	632.366	639.645	658.483
50	515.055	515.483	525.331	523.190	542.884
55	414.014	414.870	417.439	415.726	429.855
60	319.822	318.966	318.966	314.685	327.957
65	242.757	238.903	237.619	236.335	247.894
70	181.104	177.251	174.682	175.110	178.535
75	130.155	127.586	125.446	124.161	125.018
80	85.200	84.772	83.488	80.491	80.919
85	43.242	44.955	39.817	39.817	40.674
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	429.41	N.A.	15.90
0-30	895.13	N.A.	33.10
0-40	1423.49	N.A.	52.60
0-60	2286.52	N.A.	84.40
0-80	2662.87	N.A.	98.30
0-90	2708.12	N.A.	100.00
10-90	2596.47	N.A.	95.90
20-40	994.08	N.A.	36.70
20-50	1482.29	N.A.	54.70
40-70	1104.24	N.A.	40.80
60-80	376.35	N.A.	13.90
70-80	135.14	N.A.	5.00
80-90	45.25	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	2708.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.65
10-20	317.76
20-30	465.72
30-40	528.36
40-50	488.21
50-60	374.81
60-70	241.21
70-80	135.14
80-90	45.25
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

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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

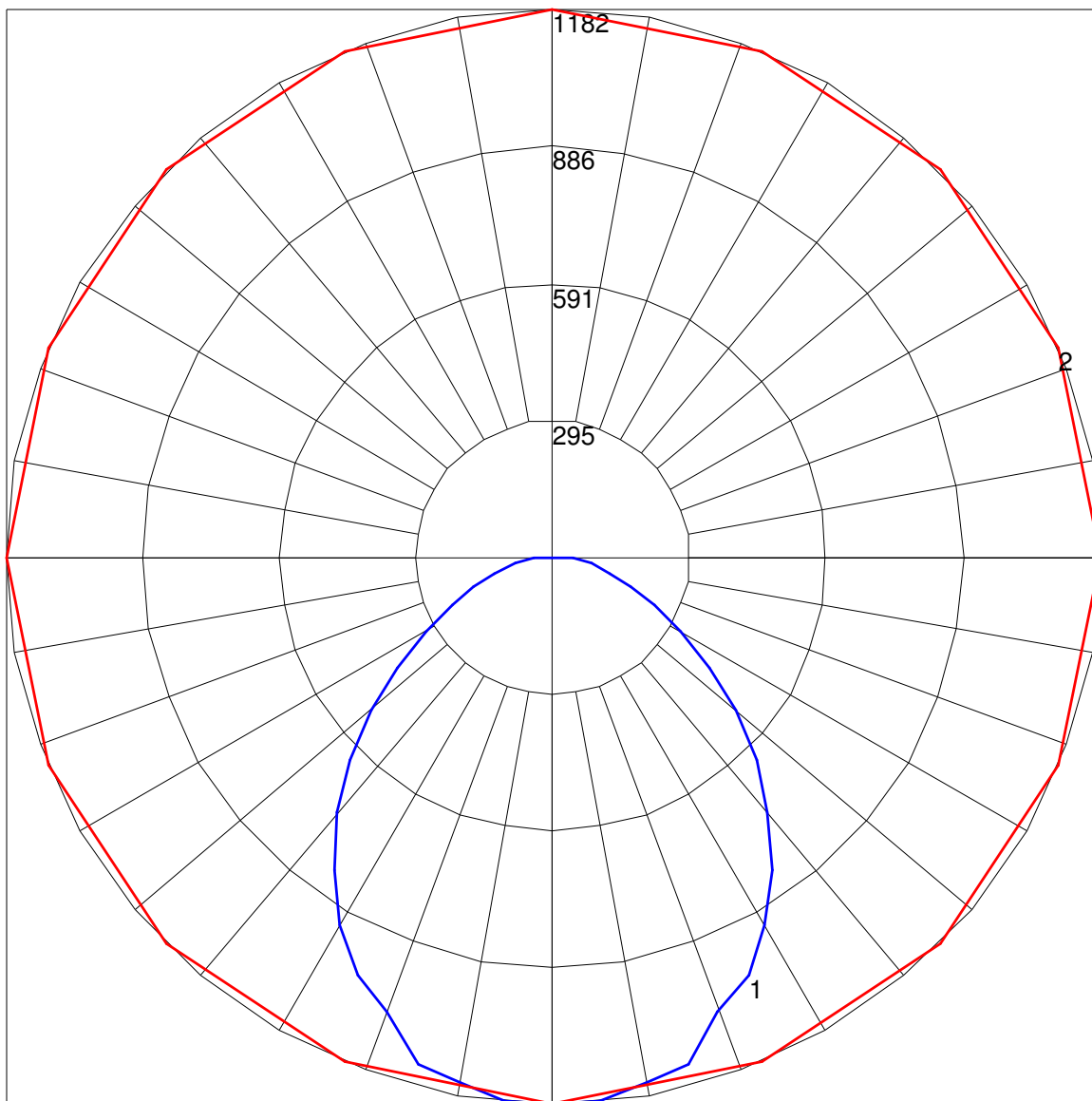
X=2H	Y=2H	14.6	16.1	15.0	16.4	16.7	14.6	16.1	15.0	16.4	16.8
	3H	16.0	17.4	16.4	17.7	18.1	16.0	17.4	16.4	17.7	18.1
	4H	16.6	17.9	17.0	18.2	18.6	16.5	17.8	16.9	18.2	18.6
	6H	17.1	18.3	17.5	18.6	19.0	17.0	18.2	17.4	18.6	18.9
	8H	17.3	18.4	17.7	18.8	19.2	17.2	18.3	17.6	18.7	19.1
	12H	17.4	18.5	17.8	18.9	19.3	17.3	18.4	17.7	18.8	19.2

UGR Viewed Endwise

4H	2H	15.0	16.3	15.4	16.7	17.1	15.0	16.3	15.4	16.7	17.1
	3H	16.7	17.8	17.1	18.2	18.6	16.7	17.8	17.1	18.2	18.6
	4H	17.4	18.4	17.8	18.8	19.2	17.4	18.3	17.8	18.7	19.2
	6H	18.1	18.9	18.5	19.3	19.8	18.0	18.8	18.4	19.2	19.7
	8H	18.3	19.1	18.8	19.5	20.0	18.2	19.0	18.7	19.4	19.9
	12H	18.5	19.2	19.0	19.7	20.2	18.4	19.1	18.9	19.6	20.0
8H	4H	17.7	18.5	18.1	18.9	19.4	17.6	18.4	18.1	18.9	19.3
	6H	18.5	19.1	19.0	19.6	20.1	18.4	19.0	18.9	19.5	20.0
	8H	18.8	19.4	19.3	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	12H	19.1	19.7	19.7	20.2	20.7	19.0	19.5	19.5	20.0	20.5
12H	4H	17.7	18.4	18.2	18.9	19.4	17.7	18.4	18.1	18.8	19.3
	6H	18.5	19.1	19.1	19.6	20.1	18.4	19.0	19.0	19.5	20.0
	8H	19.0	19.5	19.5	20.0	20.5	18.8	19.3	19.3	19.8	20.4

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1181.673 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.)