



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L65-927-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

[ISSUEDATE] 13-MAR-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-L65-927-SAF12125-DIM-UNV

[_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	5324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	89.9
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	5906	6028	6277
55	4866	4906	5052
65	3872	3790	3954
75	3390	3267	3256
85	3344	3080	3146

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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>
0	2323.200	2323.200	2323.200	2323.200	2323.200
5	2319.833	2318.150	2313.099	2308.049	2306.365
10	2272.696	2274.379	2274.379	2270.170	2277.746
15	2231.450	2234.817	2246.602	2244.918	2256.703
20	2058.894	2079.096	2086.671	2095.930	2115.290
25	1961.252	1986.504	1998.289	2012.598	2039.534
30	1808.056	1824.890	1850.984	1864.452	1902.330
35	1618.664	1629.607	1662.435	1692.737	1728.090
40	1420.856	1426.748	1456.209	1486.511	1524.390
45	1217.997	1217.155	1243.249	1257.558	1294.595
50	1012.612	1013.454	1032.814	1028.605	1067.325
55	813.962	815.645	820.696	817.329	845.106
60	628.779	627.096	627.096	618.678	644.772
65	477.266	469.690	467.165	464.640	487.367
70	356.056	348.480	343.430	344.271	351.005
75	255.889	250.838	246.630	244.104	245.788
80	167.506	166.664	164.139	158.247	159.089
85	85.016	88.383	78.282	78.282	79.965
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	844.23	N.A.	15.90
0-30	1759.86	N.A.	33.10
0-40	2798.63	N.A.	52.60
0-60	4495.35	N.A.	84.40
0-80	5235.27	N.A.	98.30
0-90	5324.24	N.A.	100.00
10-90	5104.74	N.A.	95.90
20-40	1954.39	N.A.	36.70
20-50	2914.22	N.A.	54.70
40-70	2170.96	N.A.	40.80
60-80	739.92	N.A.	13.90
70-80	265.68	N.A.	5.00
80-90	88.97	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	5324.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.50
10-20	624.73
20-30	915.62
30-40	1038.77
40-50	959.83
50-60	736.90
60-70	474.23
70-80	265.69
80-90	88.97
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	16.9	18.4	17.3	18.7	19.0
	3H	18.3	19.7	18.7	20.0	20.4
	4H	18.9	20.2	19.3	20.5	20.9
	6H	19.4	20.6	19.8	20.9	21.3
	8H	19.6	20.7	20.0	21.1	21.5
	12H	19.7	20.8	20.1	21.2	21.6

UGR Viewed Endwise

16.9	18.4	17.3	18.7	19.1
18.3	19.7	18.7	20.0	20.4
18.8	20.1	19.2	20.5	20.9
19.3	20.5	19.7	20.9	21.2
19.5	20.6	19.9	21.0	21.4
19.6	20.7	20.0	21.1	21.5

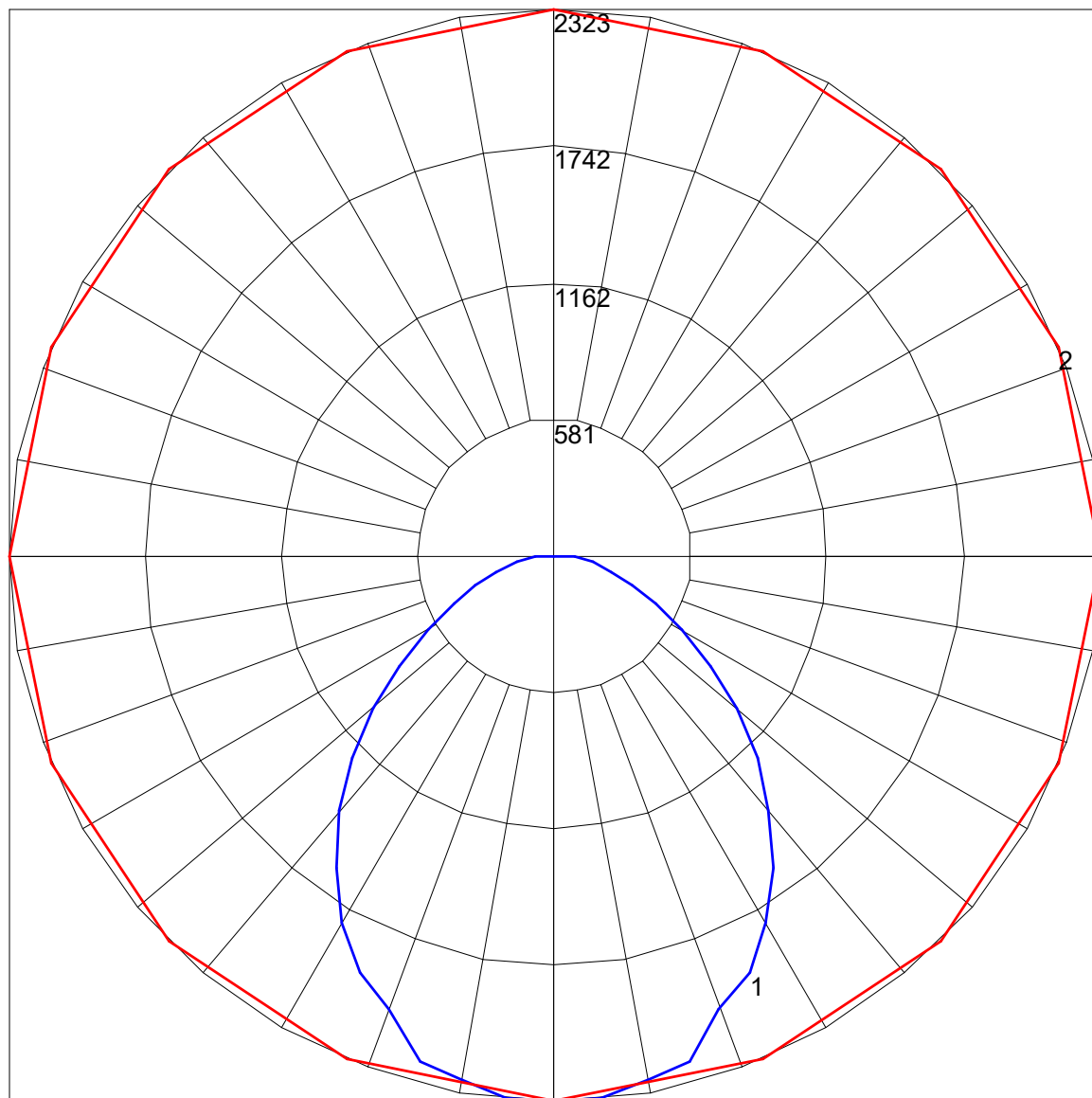
4H	2H	17.3	18.6	17.7	19.0	19.4
	3H	19.0	20.1	19.4	20.5	20.9
	4H	19.7	20.7	20.1	21.1	21.5
	6H	20.4	21.2	20.8	21.6	22.1
	8H	20.6	21.4	21.1	21.8	22.3
	12H	20.8	21.5	21.3	22.0	22.5

8H	4H	20.0	20.8	20.4	21.2	21.7
	6H	20.8	21.4	21.3	21.9	22.4
	8H	21.1	21.7	21.6	22.2	22.7
	12H	21.4	22.0	22.0	22.5	23.0

12H	4H	20.0	20.7	20.5	21.2	21.7
	6H	20.8	21.4	21.4	21.9	22.4
	8H	21.3	21.8	21.8	22.3	22.8

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 2323.2 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.)