

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-835-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

[ISSUE DATE] 08-22-2023

[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-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE TYPE]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	2871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	23.13
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	3185	3251	3385
55	2624	2646	2724
65	2088	2044	2132
75	1828	1762	1756
85	1804	1661	1696

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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	1252.800	1252.800	1252.800	1252.800	1252.800
5	1250.984	1250.076	1247.353	1244.629	1243.722
10	1225.565	1226.473	1226.473	1224.203	1228.289
15	1203.323	1205.139	1211.494	1210.586	1216.941
20	1110.271	1121.165	1125.250	1130.243	1140.683
25	1057.617	1071.235	1077.589	1085.306	1099.831
30	975.005	984.083	998.155	1005.417	1025.843
35	872.875	878.776	896.478	912.819	931.883
40	766.205	769.383	785.269	801.610	822.036
45	656.812	656.358	670.430	678.146	698.118
50	546.057	546.511	556.951	554.682	575.562
55	438.934	439.842	442.565	440.750	455.729
60	339.073	338.165	338.165	333.626	347.697
65	257.369	253.283	251.922	250.560	262.816
70	192.005	187.920	185.197	185.650	189.282
75	137.990	135.266	132.997	131.635	132.543
80	90.329	89.875	88.513	85.336	85.790
85	45.845	47.661	42.214	42.214	43.122
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	455.26	N.A.	15.90
0-30	949.01	N.A.	33.10
0-40	1509.18	N.A.	52.60
0-60	2424.15	N.A.	84.40
0-80	2823.15	N.A.	98.30
0-90	2871.13	N.A.	100.00
10-90	2752.76	N.A.	95.90
20-40	1053.92	N.A.	36.70
20-50	1571.51	N.A.	54.70
40-70	1170.7	N.A.	40.80
60-80	399.01	N.A.	13.90
70-80	143.27	N.A.	5.00
80-90	47.98	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	2871.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.37
10-20	336.89
20-30	493.75
30-40	560.16
40-50	517.59
50-60	397.38
60-70	255.73
70-80	143.27
80-90	47.98
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

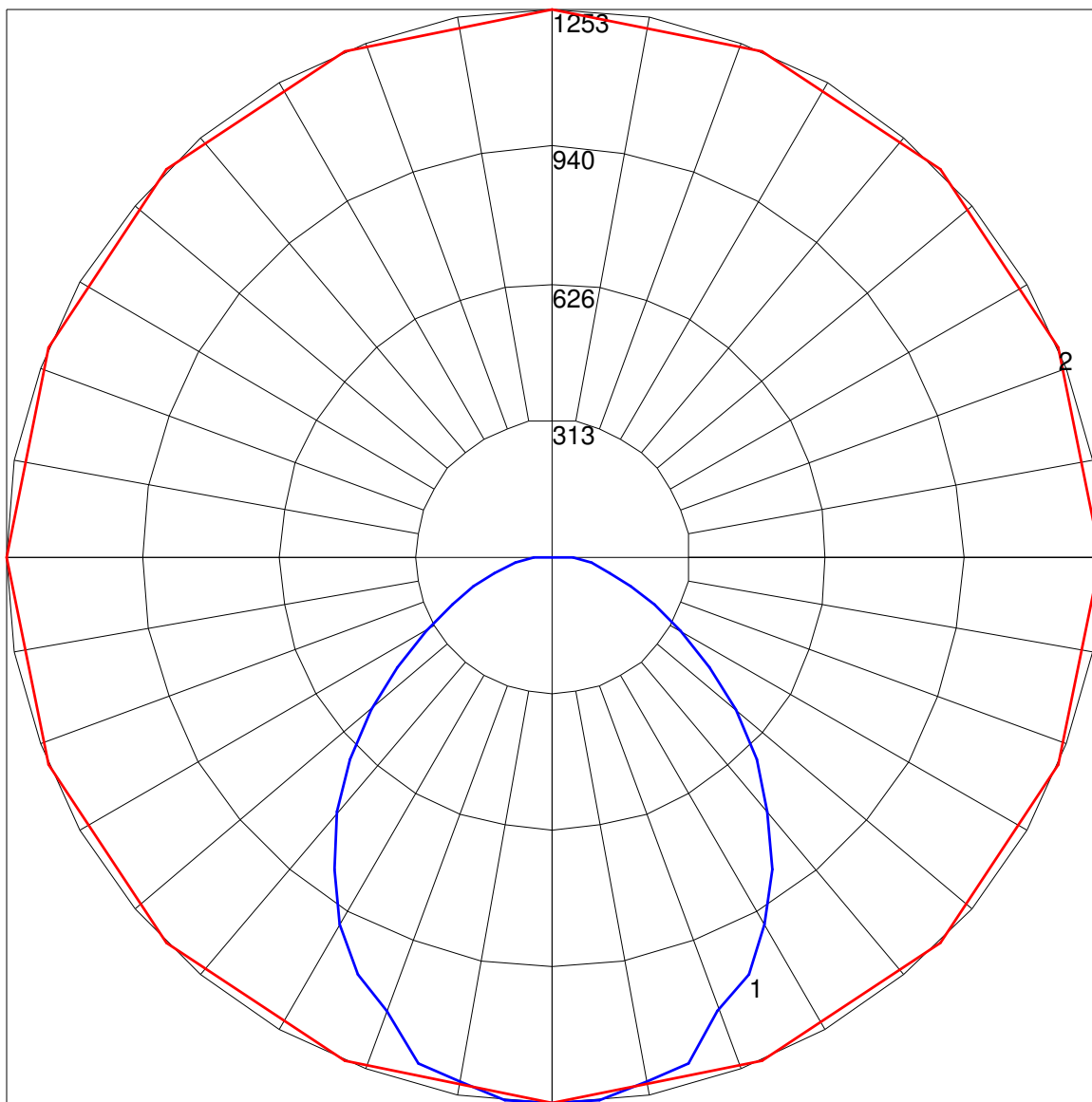
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	14.8	16.3	15.2	16.6	16.9	14.8	16.3	15.2	16.6	17.0
	3H	16.2	17.6	16.6	17.9	18.3	16.2	17.6	16.6	17.9	18.3
	4H	16.8	18.1	17.2	18.4	18.8	16.7	18.0	17.1	18.4	18.8
	6H	17.3	18.5	17.7	18.8	19.2	17.2	18.4	17.6	18.8	19.1
	8H	17.5	18.6	17.9	19.0	19.4	17.4	18.5	17.8	18.9	19.3
	12H	17.6	18.7	18.0	19.1	19.5	17.5	18.6	17.9	19.0	19.4
4H	2H	15.2	16.5	15.6	16.9	17.3	15.2	16.5	15.6	16.9	17.3
	3H	16.9	18.0	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.5	18.0	18.9	19.4
	6H	18.3	19.1	18.7	19.5	20.0	18.2	19.0	18.6	19.4	19.9
	8H	18.5	19.3	19.0	19.7	20.2	18.4	19.2	18.9	19.6	20.1
	12H	18.7	19.4	19.2	19.9	20.4	18.6	19.3	19.1	19.8	20.2
8H	4H	17.9	18.7	18.3	19.1	19.6	17.8	18.6	18.3	19.1	19.5
	6H	18.7	19.3	19.2	19.8	20.3	18.6	19.2	19.1	19.7	20.2
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.3	19.9	19.9	20.4	20.9	19.2	19.7	19.7	20.2	20.7
12H	4H	17.9	18.6	18.4	19.1	19.6	17.9	18.6	18.3	19.0	19.5
	6H	18.7	19.3	19.3	19.8	20.3	18.6	19.2	19.2	19.7	20.2
	8H	19.2	19.7	19.7	20.2	20.7	19.0	19.5	19.5	20.0	20.6

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 1252.8 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.)