



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L26-940-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] 09-06-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2' x 2' RECESSED LED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S22-L26-940-SAF12125-DIM-UNV
 [LAMP] LED
 [LAMPCAT] HLM 90 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	2262
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	21.3
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	2509	2561	2667
55	2067	2084	2146
65	1645	1610	1680
75	1440	1388	1383
85	1421	1308	1337

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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	987.055	987.055	987.055	987.055	987.055
5	985.624	984.909	982.763	980.617	979.902
10	965.597	966.312	966.312	964.524	967.743
15	948.073	949.504	954.510	953.795	958.802
20	874.759	883.342	886.561	890.495	898.720
25	833.274	844.003	849.010	855.090	866.534
30	768.186	775.339	786.425	792.147	808.240
35	687.720	692.369	706.316	719.191	734.211
40	603.677	606.180	618.697	631.572	647.665
45	517.488	517.131	528.217	534.297	550.033
50	430.227	430.585	438.810	437.022	453.473
55	345.827	346.542	348.688	347.257	359.059
60	267.148	266.433	266.433	262.857	273.943
65	202.775	199.557	198.484	197.411	207.067
70	151.277	148.058	145.912	146.270	149.131
75	108.719	106.573	104.785	103.712	104.428
80	71.168	70.810	69.738	67.234	67.592
85	36.120	37.551	33.259	33.259	33.975
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	358.69	N.A.	15.90
0-30	747.71	N.A.	33.10
0-40	1189.05	N.A.	52.60
0-60	1909.93	N.A.	84.40
0-80	2224.3	N.A.	98.30
0-90	2262.1	N.A.	100.00
10-90	2168.84	N.A.	95.90
20-40	830.36	N.A.	36.70
20-50	1238.16	N.A.	54.70
40-70	922.37	N.A.	40.80
60-80	314.37	N.A.	13.90
70-80	112.88	N.A.	5.00
80-90	37.80	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	2262.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.26
10-20	265.43
20-30	389.02
30-40	441.34
40-50	407.80
50-60	313.08
60-70	201.49
70-80	112.88
80-90	37.80
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

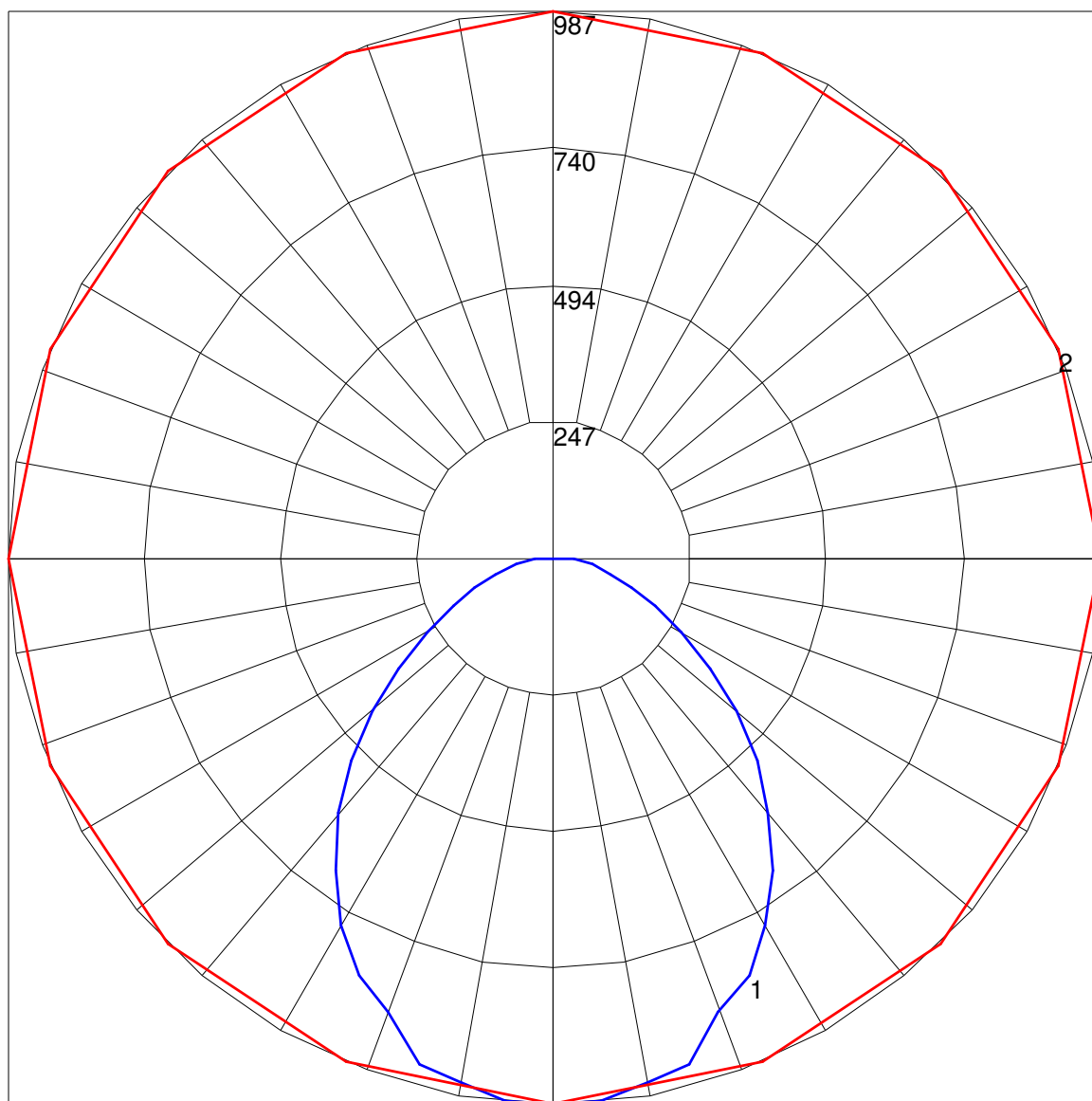
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UGR TABLE - CORRECTED

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	13.9	15.4	14.3	15.7	16.0	13.9	15.4	14.3	15.7	16.1
	3H	15.3	16.7	15.7	17.0	17.4	15.3	16.7	15.7	17.0	17.4
	4H	15.9	17.2	16.3	17.5	17.9	15.8	17.1	16.2	17.5	17.9
	6H	16.4	17.6	16.8	17.9	18.3	16.3	17.5	16.7	17.9	18.2
	8H	16.6	17.7	17.0	18.1	18.5	16.5	17.6	16.9	18.0	18.4
	12H	16.7	17.8	17.1	18.2	18.6	16.6	17.7	17.0	18.1	18.5
4H	2H	14.3	15.6	14.7	16.0	16.4	14.3	15.6	14.7	16.0	16.4
	3H	16.0	17.1	16.4	17.5	17.9	16.0	17.1	16.4	17.5	17.9
	4H	16.7	17.7	17.1	18.1	18.5	16.7	17.6	17.1	18.0	18.5
	6H	17.4	18.2	17.8	18.6	19.1	17.3	18.1	17.7	18.5	19.0
	8H	17.6	18.4	18.1	18.8	19.3	17.5	18.3	18.0	18.7	19.2
	12H	17.8	18.5	18.3	19.0	19.5	17.7	18.4	18.2	18.9	19.3
8H	4H	17.0	17.8	17.4	18.2	18.7	16.9	17.7	17.4	18.2	18.6
	6H	17.8	18.4	18.3	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	8H	18.1	18.7	18.6	19.2	19.7	18.0	18.6	18.5	19.1	19.6
	12H	18.4	19.0	19.0	19.5	20.0	18.3	18.8	18.8	19.3	19.8
12H	4H	17.0	17.7	17.5	18.2	18.7	17.0	17.7	17.4	18.1	18.6
	6H	17.8	18.4	18.4	18.9	19.4	17.7	18.3	18.3	18.8	19.3
	8H	18.3	18.8	18.8	19.3	19.8	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 987.055 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.)