



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L27-940-SAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18123.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 09-06-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 1x4' RECESSED LED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT12 LENS PRISMS DOWN
 [LUMCAT] 50G-S14-L27-940-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	2268
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	20.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2952	2801	2628
55	2367	2151	1939
65	1898	1671	1544
75	1513	1399	1399
85	1542	1395	1542

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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	1043.430	1043.430	1043.430	1043.430	1043.430
5	1040.662	1040.316	1040.662	1040.316	1041.354
10	1023.364	1023.364	1022.672	1022.672	1022.672
15	983.578	983.578	981.848	981.848	981.502
20	952.787	952.095	950.020	948.636	948.290
25	869.064	866.988	864.566	861.107	861.107
30	801.255	798.487	791.914	784.302	781.881
35	731.716	728.256	717.531	703.693	698.503
40	639.689	633.808	618.931	600.941	592.638
45	564.269	554.928	535.554	510.990	502.341
50	460.133	449.062	427.613	401.665	394.054
55	367.069	356.690	333.510	309.639	300.644
60	281.961	271.582	252.208	233.872	226.607
65	216.920	208.271	190.973	179.556	176.442
70	155.338	149.457	136.656	133.196	133.542
75	105.865	102.752	97.908	95.486	97.908
80	70.577	68.501	65.387	67.117	68.155
85	36.326	34.596	32.867	35.980	36.326
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	376.98	N.A.	16.60
0-30	776.88	N.A.	34.30
0-40	1221.41	N.A.	53.90
0-60	1929.29	N.A.	85.10
0-80	2230.26	N.A.	98.30
0-90	2267.69	N.A.	100.00
10-90	2168.96	N.A.	95.60
20-40	844.43	N.A.	37.20
20-50	1251.57	N.A.	55.20
40-70	901.29	N.A.	39.70
60-80	300.97	N.A.	13.30
70-80	107.56	N.A.	4.70
80-90	37.43	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	2267.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.73
10-20	278.25
20-30	399.90
30-40	444.52
40-50	407.14
50-60	300.75
60-70	193.41
70-80	107.56
80-90	37.43
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

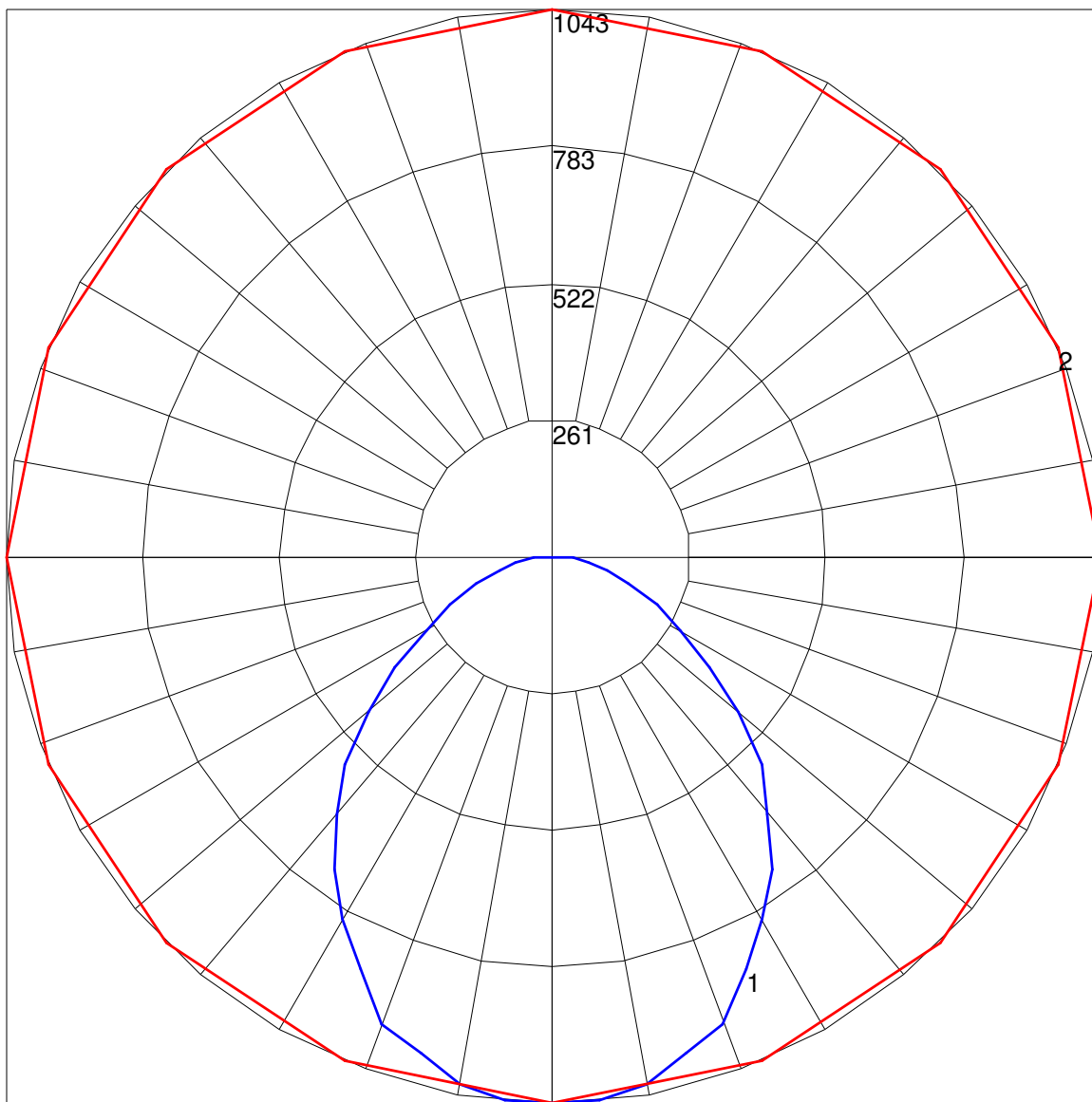
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UGR TABLE - CORRECTED

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	14.4	15.9	14.7	16.2	16.5	13.3	14.8	13.6	15.1	15.4
	3H	15.8	17.1	16.2	17.5	17.8	14.7	16.1	15.1	16.4	16.8
	4H	16.3	17.6	16.7	17.9	18.3	15.3	16.6	15.7	16.9	17.3
	6H	16.8	17.9	17.2	18.3	18.7	15.9	17.0	16.3	17.4	17.8
	8H	16.9	18.1	17.4	18.4	18.8	16.1	17.2	16.5	17.6	18.0
	12H	17.1	18.2	17.5	18.5	19.0	16.3	17.4	16.7	17.7	18.2
4H	2H	14.7	16.0	15.1	16.4	16.7	13.8	15.1	14.2	15.5	15.8
	3H	16.4	17.4	16.8	17.8	18.2	15.5	16.6	15.9	17.0	17.4
	4H	17.0	18.0	17.5	18.4	18.8	16.2	17.2	16.6	17.6	18.0
	6H	17.6	18.5	18.1	18.9	19.4	16.9	17.7	17.4	18.2	18.6
	8H	17.9	18.7	18.3	19.1	19.6	17.2	18.0	17.7	18.4	18.9
	12H	18.1	18.8	18.6	19.3	19.7	17.5	18.2	17.9	18.6	19.1
8H	4H	17.2	18.0	17.7	18.5	18.9	16.5	17.3	17.0	17.7	18.2
	6H	18.0	18.6	18.5	19.1	19.6	17.3	18.0	17.8	18.5	19.0
	8H	18.3	18.9	18.8	19.4	19.9	17.8	18.3	18.3	18.8	19.3
	12H	18.6	19.1	19.1	19.6	20.2	18.1	18.6	18.6	19.1	19.7
12H	4H	17.3	18.0	17.7	18.4	18.9	16.5	17.3	17.0	17.7	18.2
	6H	18.1	18.6	18.6	19.1	19.6	17.5	18.0	18.0	18.5	19.0
	8H	18.4	19.0	18.9	19.4	20.0	17.9	18.4	18.4	18.9	19.5

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1043.43 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.)