



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-940-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] 1' x 4' RECESSED LED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT12 LENS PRISMS DOWN
 [LUMCAT] 50G-S14-L45-940-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	3707
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	33.7
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	4825	4580	4296
55	3870	3516	3169
65	3104	2732	2525
75	2473	2287	2287
85	2520	2280	2520

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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	1705.846	1705.846	1705.846	1705.846	1705.846
5	1701.321	1700.756	1701.321	1700.756	1702.452
10	1673.041	1673.041	1671.910	1671.910	1671.910
15	1607.997	1607.997	1605.169	1605.169	1604.604
20	1557.659	1556.528	1553.134	1550.872	1550.306
25	1420.784	1417.391	1413.431	1407.775	1407.775
30	1309.927	1305.402	1294.656	1282.212	1278.253
35	1196.241	1190.585	1173.052	1150.428	1141.944
40	1045.792	1036.177	1011.856	982.445	968.871
45	922.492	907.220	875.547	835.389	821.249
50	752.246	734.147	699.080	656.660	644.217
55	600.100	583.132	545.237	506.211	491.505
60	460.963	443.995	412.322	382.345	370.467
65	354.630	340.490	312.211	293.546	288.455
70	253.954	244.339	223.412	217.756	218.321
75	173.073	167.983	160.064	156.105	160.064
80	115.382	111.989	106.898	109.726	111.423
85	59.388	56.560	53.732	58.822	59.388
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	616.30	N.A.	16.60
0-30	1270.08	N.A.	34.30
0-40	1996.81	N.A.	53.90
0-60	3154.09	N.A.	85.10
0-80	3646.13	N.A.	98.30
0-90	3707.32	N.A.	100.00
10-90	3545.91	N.A.	95.60
20-40	1380.51	N.A.	37.20
20-50	2046.12	N.A.	55.20
40-70	1473.48	N.A.	39.70
60-80	492.03	N.A.	13.30
70-80	175.84	N.A.	4.70
80-90	61.19	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	3707.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.41
10-20	454.89
20-30	653.78
30-40	726.73
40-50	665.61
50-60	491.68
60-70	316.19
70-80	175.84
80-90	61.19
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	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	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	59	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

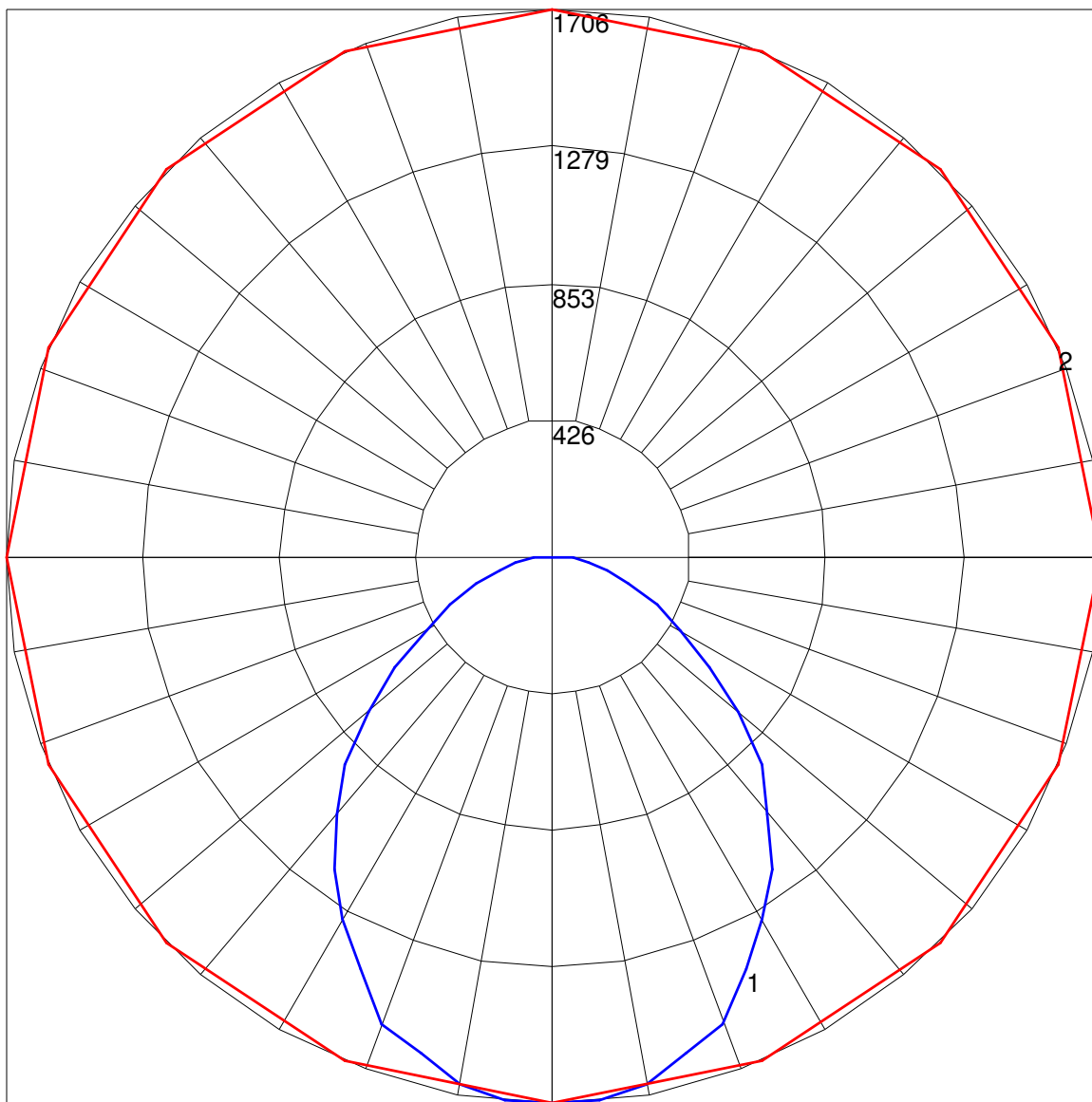
Reflectances

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	16.2	17.7	16.5	18.0	18.3	15.1	16.6	15.4	16.9	17.2
	3H	17.6	18.9	18.0	19.3	19.6	16.5	17.9	16.9	18.2	18.6
	4H	18.1	19.4	18.5	19.7	20.1	17.1	18.4	17.5	18.7	19.1
	6H	18.6	19.7	19.0	20.1	20.5	17.7	18.8	18.1	19.2	19.6
	8H	18.7	19.9	19.2	20.2	20.7	17.9	19.0	18.3	19.4	19.8
	12H	18.9	20.0	19.3	20.3	20.8	18.1	19.2	18.5	19.5	20.0
4H	2H	16.5	17.8	16.9	18.2	18.5	15.6	16.9	16.0	17.3	17.6
	3H	18.2	19.2	18.6	19.6	20.0	17.3	18.4	17.7	18.8	19.2
	4H	18.8	19.8	19.3	20.2	20.7	18.0	19.0	18.5	19.4	19.8
	6H	19.5	20.3	19.9	20.7	21.2	18.7	19.6	19.2	20.0	20.5
	8H	19.7	20.5	20.1	20.9	21.4	19.0	19.8	19.5	20.2	20.7
	12H	19.9	20.6	20.4	21.1	21.5	19.3	20.0	19.7	20.4	20.9
8H	4H	19.0	19.8	19.5	20.3	20.7	18.3	19.1	18.8	19.5	20.0
	6H	19.8	20.4	20.3	20.9	21.4	19.2	19.8	19.6	20.3	20.8
	8H	20.1	20.7	20.6	21.2	21.7	19.6	20.1	20.1	20.7	21.1
	12H	20.4	20.9	20.9	21.4	22.0	19.9	20.4	20.4	20.9	21.5
12H	4H	19.1	19.8	19.5	20.3	20.7	18.3	19.1	18.8	19.5	20.0
	6H	19.9	20.4	20.4	20.9	21.4	19.3	19.8	19.8	20.3	20.8
	8H	20.2	20.8	20.7	21.2	21.8	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1705.846 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.)