



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S14-L59-835-FVLF-(L43)-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] 28-JUL-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMINAIRE] 1x4' RECESSED LED TROFFER LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR POLYCARB LENS & PAT12 PRISMATIC OVERLAY

[LUMCAT] 50G-S14-L59-835-(L43)-FVLF-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	4351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	37.2
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	5663	5375	5041
55	4541	4126	3720
65	3642	3207	2963
75	2903	2684	2684
85	2958	2676	2958

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2001.925	2001.925	2001.925	2001.925	2001.925
5	1996.614	1995.951	1996.614	1995.951	1997.942
10	1963.426	1963.426	1962.099	1962.099	1962.099
15	1887.093	1887.093	1883.774	1883.774	1883.110
20	1828.017	1826.690	1822.707	1820.052	1819.388
25	1667.385	1663.403	1658.757	1652.119	1652.119
30	1537.287	1531.977	1519.365	1504.762	1500.116
35	1403.870	1397.232	1376.655	1350.104	1340.148
40	1227.307	1216.023	1187.481	1152.965	1137.035
45	1082.606	1064.684	1027.513	980.386	963.791
50	882.812	861.571	820.417	770.635	756.032
55	704.258	684.345	639.872	594.072	576.814
60	540.971	521.058	483.887	448.707	434.768
65	416.183	399.588	366.400	344.496	338.522
70	298.032	286.748	262.188	255.551	256.214
75	203.113	197.139	187.846	183.200	187.846
80	135.409	131.426	125.452	128.771	130.762
85	69.696	66.377	63.058	69.032	69.696
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	723.27	N.A.	16.60
0-30	1490.52	N.A.	34.30
0-40	2343.39	N.A.	53.90
0-60	3701.54	N.A.	85.10
0-80	4278.98	N.A.	98.30
0-90	4350.79	N.A.	100.00
10-90	4161.36	N.A.	95.60
20-40	1620.12	N.A.	37.20
20-50	2401.25	N.A.	55.20
40-70	1729.22	N.A.	39.70
60-80	577.44	N.A.	13.30
70-80	206.36	N.A.	4.70
80-90	71.81	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	4350.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.43
10-20	533.84
20-30	767.25
30-40	852.86
40-50	781.14
50-60	577.02
60-70	371.07
70-80	206.36
80-90	71.81
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

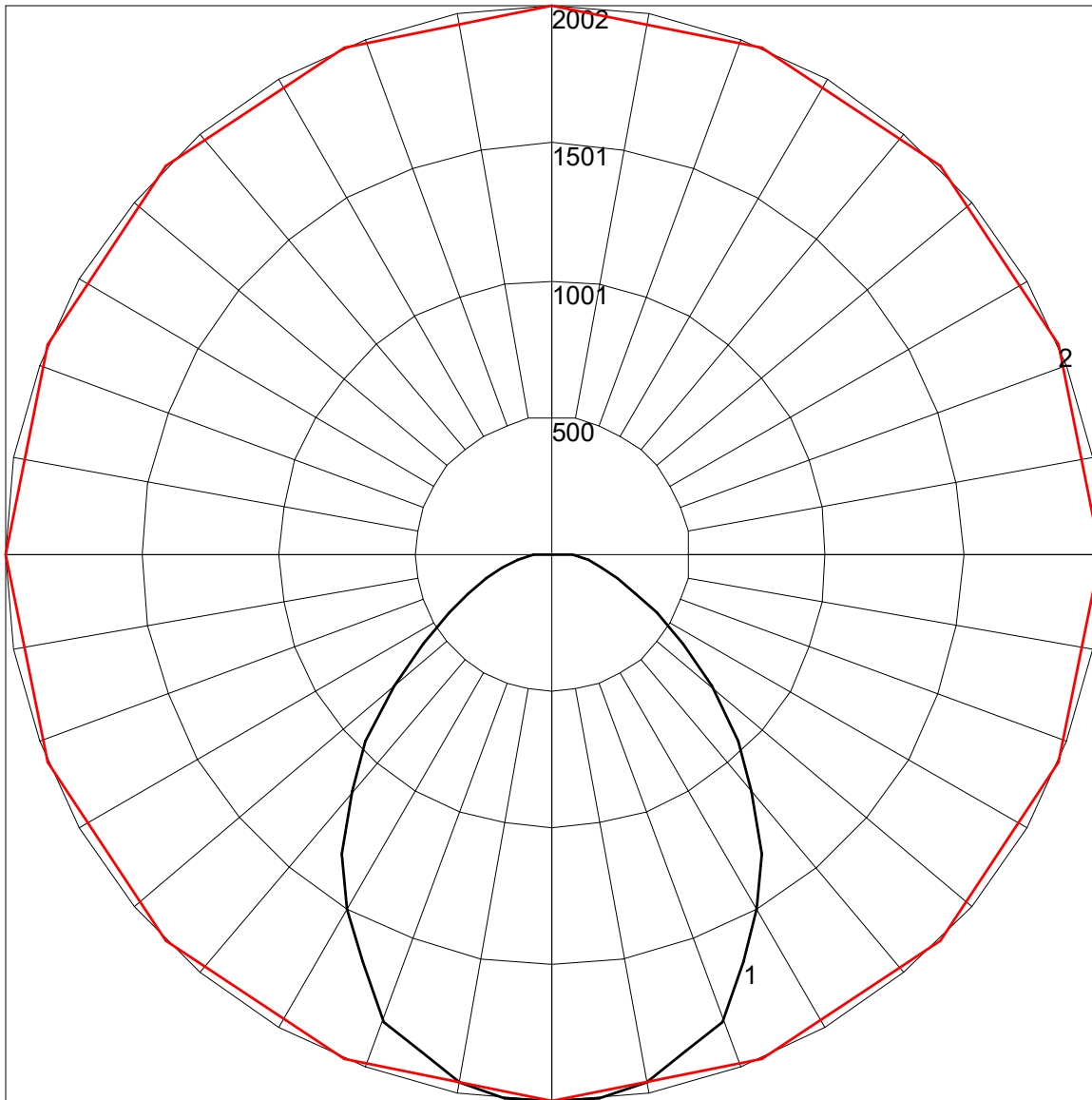
X=2H	Y=2H	16.7	18.2	17.0	18.5	18.8	15.6	17.1	15.9	17.4	17.7
	3H	18.1	19.4	18.5	19.8	20.1	17.0	18.4	17.4	18.7	19.1
	4H	18.6	19.9	19.0	20.2	20.6	17.6	18.9	18.0	19.2	19.6
	6H	19.1	20.2	19.5	20.6	21.0	18.2	19.3	18.6	19.7	20.1
	8H	19.2	20.4	19.7	20.7	21.1	18.4	19.5	18.8	19.9	20.3
	12H	19.4	20.5	19.8	20.8	21.3	18.6	19.7	19.0	20.0	20.5

UGR Viewed Endwise

4H	2H	17.0	18.3	17.4	18.7	19.0	16.1	17.4	16.5	17.8	18.1
	3H	18.7	19.7	19.1	20.1	20.5	17.8	18.9	18.2	19.3	19.7
	4H	19.3	20.3	19.8	20.7	21.1	18.5	19.5	18.9	19.9	20.3
	6H	19.9	20.8	20.4	21.2	21.7	19.2	20.0	19.7	20.5	20.9
	8H	20.2	21.0	20.6	21.4	21.9	19.5	20.3	20.0	20.7	21.2
	12H	20.4	21.1	20.9	21.6	22.0	19.8	20.5	20.2	20.9	21.4
8H	4H	19.5	20.3	20.0	20.8	21.2	18.8	19.6	19.3	20.0	20.5
	6H	20.3	20.9	20.8	21.4	21.9	19.7	20.3	20.1	20.8	21.3
	8H	20.6	21.2	21.1	21.7	22.2	20.1	20.6	20.6	21.1	21.6
	12H	20.9	21.4	21.4	21.9	22.5	20.4	20.9	20.9	21.4	22.0
12H	4H	19.6	20.3	20.0	20.7	21.2	18.8	19.6	19.3	20.0	20.5
	6H	20.4	20.9	20.9	21.4	21.9	19.8	20.3	20.3	20.8	21.3
	8H	20.7	21.3	21.2	21.7	22.3	20.2	20.7	20.7	21.2	21.8

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 2001.925 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)