



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L45-835-PC12187-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2020.0.0 see: www.ltiopics.com/ies
 [ISSUEDATE] 25 MARCH 2020
 [TESTDATE] Wed Mar 25 13:54:28 2020
 [TEST] 50G-S14-L45 PC12187
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 50G-S14-L45-835-PC12187-DIM-UNV
 [LUMINAIRE] 1 X 4 RECESSED LED LUMINAIRE
 [LAMP] LED 22.6W 22" 56 LED linear LED module 4000K
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3694
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.39 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3204	2432	2078
55	2257	1534	1265
65	1565	931	779
75	1032	535	431
85	509	237	199

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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	2525.993	2525.993	2525.993	2525.993	2525.993
5	2312.319	2341.490	2314.907	2249.938	2287.213
10	2011.940	2009.943	1987.700	1982.427	1964.919
15	1755.198	1753.688	1743.108	1764.465	1731.879
20	1593.628	1620.651	1628.401	1622.004	1601.101
25	1495.627	1500.112	1520.345	1519.846	1506.384
30	1416.467	1412.093	1404.180	1389.955	1358.098
35	1299.848	1282.084	1248.868	1215.933	1207.166
40	1111.956	1093.037	1040.112	989.368	968.531
45	906.537	902.551	846.901	779.930	749.288
50	721.666	695.648	641.502	582.733	570.846
55	537.689	520.476	481.599	437.757	415.265
60	405.316	390.605	346.619	321.913	311.820
65	291.593	281.585	251.238	232.325	222.559
70	193.743	193.231	177.581	153.408	153.592
75	132.807	133.299	116.474	107.884	101.147
80	79.626	84.171	76.763	69.579	69.697
85	34.195	42.318	37.682	36.618	35.147
90	14.947	15.800	14.231	13.331	11.263

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	710.96	N.A.	19.20
0-30	1407.07	N.A.	38.10
0-40	2179.27	N.A.	59.00
0-60	3262.92	N.A.	88.30
0-80	3648.88	N.A.	98.80
0-90	3694.11	N.A.	100.00
10-90	3482.8	N.A.	94.30
20-40	1468.32	N.A.	39.70
20-50	2115.65	N.A.	57.30
40-70	1340.82	N.A.	36.30
60-80	385.96	N.A.	10.40
70-80	128.78	N.A.	3.50
80-90	45.23	N.A.	1.20
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	3694.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.31
10-20	499.65
20-30	696.11
30-40	772.21
40-50	647.33
50-60	436.32
60-70	257.17
70-80	128.78
80-90	45.23
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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42
8	66	54	46	41	65	53	46	40	52	45	40	51	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

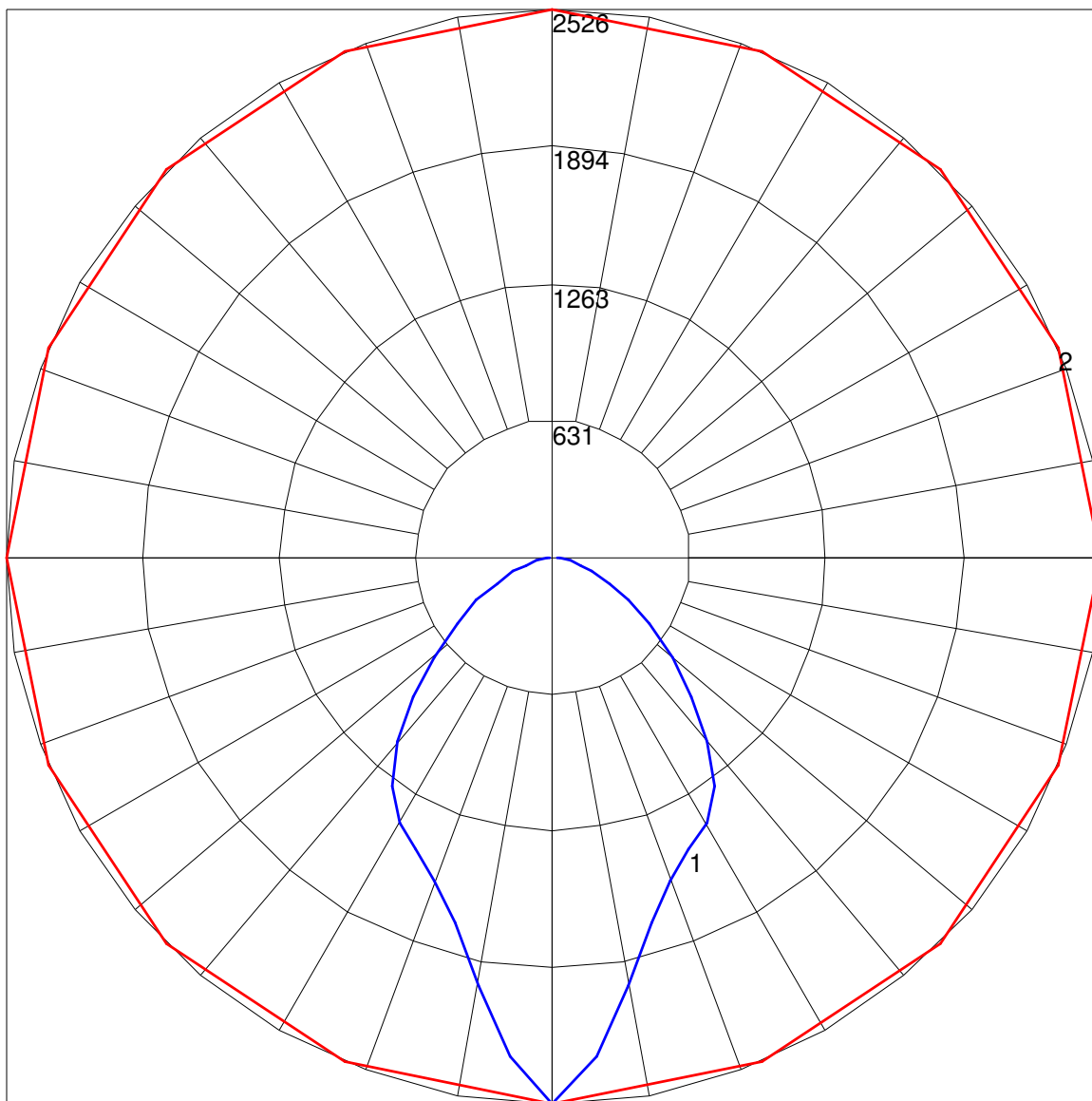
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UGR TABLE - CORRECTED

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	12.6	14.0	12.9	14.3	14.6	11.9	13.4	12.3	13.7	14.0
	3H	13.5	14.8	13.9	15.1	15.5	12.9	14.2	13.3	14.5	14.9
	4H	13.8	15.0	14.2	15.4	15.7	13.2	14.5	13.6	14.8	15.2
	6H	14.0	15.1	14.4	15.5	15.8	13.5	14.6	13.9	15.0	15.4
	8H	14.0	15.1	14.4	15.5	15.9	13.6	14.7	14.0	15.1	15.5
	12H	14.0	15.0	14.4	15.4	15.8	13.7	14.7	14.1	15.1	15.5
4H	2H	12.8	14.0	13.2	14.4	14.8	12.2	13.5	12.6	13.8	14.2
	3H	13.9	14.9	14.3	15.3	15.7	13.4	14.4	13.8	14.8	15.2
	4H	14.3	15.2	14.8	15.6	16.1	13.8	14.7	14.3	15.2	15.6
	6H	14.6	15.4	15.1	15.8	16.3	14.2	15.0	14.7	15.4	15.9
	8H	14.7	15.4	15.1	15.8	16.3	14.3	15.1	14.8	15.5	16.0
	12H	14.7	15.3	15.2	15.8	16.3	14.4	15.1	14.9	15.6	16.0
8H	4H	14.4	15.1	14.9	15.6	16.1	14.0	14.7	14.4	15.1	15.6
	6H	14.7	15.4	15.2	15.8	16.3	14.4	15.0	14.9	15.5	16.0
	8H	14.8	15.4	15.4	15.9	16.4	14.6	15.1	15.1	15.6	16.1
	12H	14.9	15.4	15.4	15.9	16.5	14.7	15.2	15.2	15.7	16.3
12H	4H	14.4	15.1	14.9	15.5	16.0	13.9	14.6	14.4	15.1	15.6
	6H	14.8	15.3	15.3	15.8	16.3	14.4	15.0	14.9	15.4	16.0
	8H	14.9	15.4	15.4	15.9	16.4	14.6	15.1	15.1	15.6	16.2

Maximum UGR = 16.5

POLAR GRAPH



Maximum Candela = 2525.993 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.)