



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S14-L65-840-PC12187-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2020.0.0 see: www.ltiopics.com/ies
 [ISSUEDATE] 25 MARCH 2020
 [TESTDATE] Wed Mar 25 13:54:28 2020
 [TEST] 50G-S14-L65 PC12187
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 50G-S14-L65-840-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 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	52.8
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	4879	3703	3164
55	3437	2336	1927
65	2384	1417	1186
75	1572	814	656
85	776	361	303

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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	3846.43	3846.43	3846.43	3846.43	3846.43
5	3521.06	3565.48	3525.00	3426.07	3482.83
10	3063.66	3060.62	3026.75	3018.72	2992.06
15	2672.71	2670.41	2654.30	2686.82	2637.20
20	2426.68	2467.83	2479.63	2469.89	2438.06
25	2277.45	2284.28	2315.09	2314.33	2293.83
30	2156.91	2150.25	2138.20	2116.54	2068.03
35	1979.33	1952.28	1901.70	1851.55	1838.20
40	1693.22	1664.41	1583.82	1506.55	1474.82
45	1380.42	1374.35	1289.61	1187.63	1140.97
50	1098.91	1059.29	976.84	887.35	869.25
55	818.76	792.55	733.35	666.59	632.34
60	617.19	594.79	527.81	490.19	474.82
65	444.02	428.78	382.57	353.77	338.90
70	295.02	294.24	270.41	233.60	233.88
75	202.23	202.98	177.36	164.28	154.02
80	121.25	128.17	116.89	105.95	106.13
85	52.07	64.44	57.38	55.76	53.52
90	22.76	24.06	21.67	20.30	17.15

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1082.6	N.A.	19.20
0-30	2142.59	N.A.	38.10
0-40	3318.46	N.A.	59.00
0-60	4968.58	N.A.	88.30
0-80	5556.29	N.A.	98.80
0-90	5625.16	N.A.	100.00
10-90	5303.4	N.A.	94.30
20-40	2235.86	N.A.	39.70
20-50	3221.58	N.A.	57.30
40-70	2041.72	N.A.	36.30
60-80	587.71	N.A.	10.40
70-80	196.10	N.A.	3.50
80-90	68.87	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	5625.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	321.77
10-20	760.83
20-30	1059.99
30-40	1175.87
40-50	985.71
50-60	664.40
60-70	391.61
70-80	196.10
80-90	68.87
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

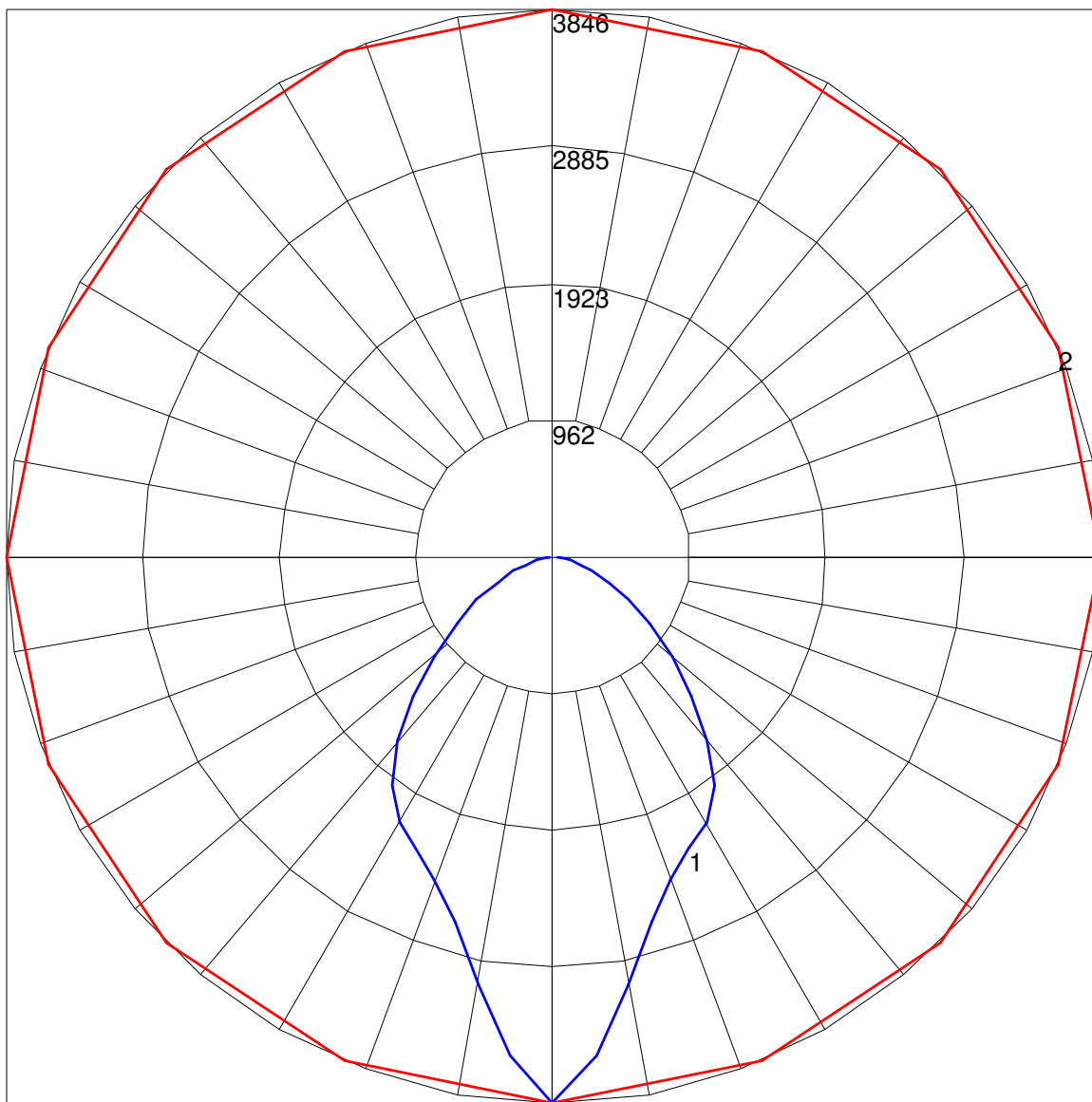
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UGR TABLE - CORRECTED

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	14.1	15.5	14.4	15.8	16.1	13.4	14.9	13.8	15.2	15.5
	3H	15.0	16.3	15.4	16.6	17.0	14.4	15.7	14.8	16.0	16.4
	4H	15.3	16.5	15.7	16.9	17.2	14.7	16.0	15.1	16.3	16.7
	6H	15.5	16.6	15.9	17.0	17.3	15.0	16.1	15.4	16.5	16.9
	8H	15.5	16.6	15.9	17.0	17.4	15.1	16.2	15.5	16.6	17.0
	12H	15.5	16.5	15.9	16.9	17.3	15.2	16.2	15.6	16.6	17.0
4H	2H	14.3	15.5	14.7	15.9	16.3	13.7	14.9	14.1	15.3	15.7
	3H	15.4	16.4	15.8	16.8	17.2	14.9	15.9	15.3	16.3	16.7
	4H	15.8	16.7	16.3	17.1	17.6	15.3	16.2	15.8	16.7	17.1
	6H	16.1	16.9	16.6	17.3	17.8	15.7	16.5	16.2	16.9	17.4
	8H	16.2	16.9	16.6	17.3	17.8	15.8	16.6	16.3	17.0	17.5
	12H	16.2	16.8	16.7	17.3	17.8	15.9	16.6	16.4	17.1	17.5
8H	4H	15.9	16.6	16.4	17.1	17.6	15.5	16.2	15.9	16.6	17.1
	6H	16.2	16.9	16.7	17.3	17.8	15.9	16.5	16.4	17.0	17.5
	8H	16.3	16.9	16.9	17.4	17.9	16.1	16.6	16.6	17.1	17.6
	12H	16.4	16.9	16.9	17.4	18.0	16.2	16.7	16.7	17.2	17.8
12H	4H	15.9	16.6	16.4	17.0	17.5	15.4	16.1	15.9	16.6	17.1
	6H	16.3	16.8	16.8	17.3	17.8	15.9	16.5	16.4	16.9	17.5
	8H	16.4	16.9	16.9	17.4	17.9	16.1	16.6	16.6	17.1	17.7

Maximum UGR = 18.0

POLAR GRAPH



Maximum Candela = 3846.43 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.)