

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLS 14 1 36 GUVT8 UNV(S).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001321-001

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 9/25/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] GLS 14 1 36 GUVT8 UNV

[LUMINAIRE] 1x4 Lay-in/Surface mount luminaire, formed white enamel steel housing,

[MORE] formed specular aluminum reflectors. Gray wire guard.

[LAMP] One linear T8 Philips TUV 36W UV Lamp rated at 14415 mW (15500 mW

[MORE] with 0.93 ballast factor).

[BALLAST] One Fulham SunHorse Ballast SHS1-UNV-C-I

[OTHER] 120.0Vac, 60.00Hz, 0.3478A, 41.61W, 0.997PF, 4.2%THD(i)

[OTHER] File format is based on IES LM-63-02 with modifications necessary for

[MORE] use in standard UVGI applications software.

[MORE] Intensity values in this file are expressed in mW/sr.

[MORE] The 'Lamp Lumens' field value is expressed as Radiant Power in mW.

[_CONVERT] Luminaire test position and photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	14415 (1 lamp)
Total Lamp Lumens	14415
Luminaire Lumens	11760
Total Luminaire Efficiency	82 %
Luminaire Efficacy Rating (LER)	283
Total Luminaire Watts	41.611
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.80
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.33 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15093	23576	19827
55	9114	13087	16760
65	10504	7737	14931
75	3923	7604	17467
85	494	611	8710

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1149.99	8.00	9.80
0-30	2947.63	20.40	25.10
0-40	5383.34	37.30	45.80
0-60	9520.74	66.00	81.00
0-80	11605.91	80.50	98.70
0-90	11750.4	81.50	99.90
10-90	11497.74	79.80	97.80
20-40	4233.35	29.40	36.00
20-50	6604.47	45.80	56.20
40-70	5495.16	38.10	46.70
60-80	2085.17	14.50	17.70
70-80	727.40	5.00	6.20
80-90	144.50	1.00	1.20
90-110	9.61	0.10	0.10
90-120	9.61	0.10	0.10
90-130	9.61	0.10	0.10
90-150	9.61	0.10	0.10
90-180	9.61	0.10	0.10
110-180	0.00	0.00	0.00
0-180	11760.01	81.60	100.00

Total Luminaire Efficiency = 81.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	252.67
10-20	897.32
20-30	1797.64
30-40	2435.71
40-50	2371.12
50-60	1766.28
60-70	1357.77
70-80	727.40
80-90	144.50
90-100	9.56
100-110	0.05
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	97	97	97	97	95	95	95	95	91	91	91	87	87	87	83	83	83	82	82
1	89	85	82	79	87	83	80	77	80	77	75	77	75	73	74	72	70	69	69
2	81	74	69	64	79	73	68	63	70	66	62	67	64	61	65	62	59	57	57
3	74	65	59	53	72	64	58	53	61	56	52	59	55	51	57	53	50	48	48
4	67	58	50	45	66	57	50	45	54	49	44	53	48	43	51	46	43	41	41
5	62	51	44	39	60	50	44	38	49	43	38	47	42	37	46	41	37	35	35
6	57	46	39	33	55	45	38	33	44	38	33	42	37	33	41	36	32	31	31
7	53	42	34	29	51	41	34	29	40	33	29	38	33	29	37	32	29	27	27
8	49	38	31	26	48	37	30	26	36	30	26	35	30	25	34	29	25	24	24
9	46	34	28	23	44	34	27	23	33	27	23	32	27	23	31	26	23	21	21
10	43	32	25	21	41	31	25	21	30	25	21	30	24	20	29	24	20	19	19

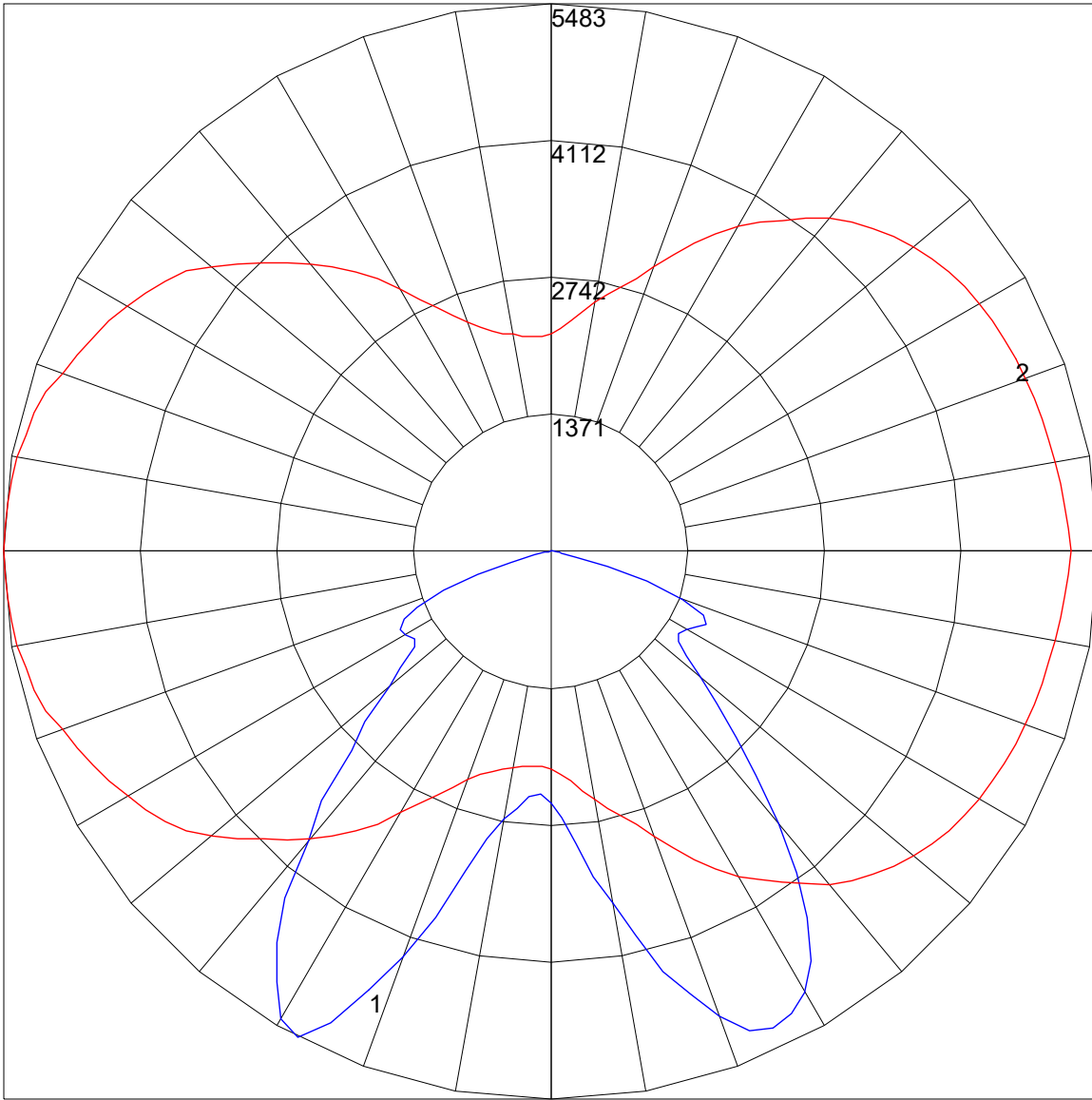
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UGR TABLE - CORRECTED

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	20.2	21.9	20.6	22.2	22.5	21.3	22.9	21.7	23.2	23.6
	3H	23.8	25.3	24.2	25.6	25.9	22.4	23.8	22.7	24.2	24.5
	4H	24.2	25.6	24.6	25.9	26.3	22.7	24.1	23.1	24.5	24.9
	6H	24.2	25.5	24.6	25.9	26.3	23.0	24.3	23.4	24.6	25.0
	8H	24.2	25.4	24.6	25.8	26.2	23.0	24.2	23.4	24.6	25.0
	12H	24.2	25.3	24.6	25.7	26.2	23.0	24.2	23.4	24.6	25.0
4H	2H	20.6	21.9	21.0	22.3	22.7	21.7	23.1	22.1	23.4	23.8
	3H	24.3	25.5	24.7	25.9	26.3	22.9	24.1	23.3	24.5	24.9
	4H	24.8	25.9	25.2	26.3	26.7	23.4	24.4	23.8	24.8	25.3
	6H	24.9	25.8	25.3	26.2	26.7	23.7	24.6	24.1	25.0	25.5
	8H	24.8	25.7	25.3	26.1	26.6	23.7	24.6	24.1	25.0	25.5
	12H	24.8	25.6	25.3	26.1	26.5	23.7	24.5	24.2	25.0	25.4
8H	4H	24.9	25.8	25.4	26.2	26.7	23.6	24.5	24.1	24.9	25.4
	6H	25.0	25.7	25.5	26.2	26.6	23.9	24.7	24.4	25.1	25.6
	8H	24.9	25.6	25.4	26.1	26.6	24.0	24.7	24.5	25.2	25.7
	12H	24.9	25.5	25.4	26.0	26.5	24.1	24.7	24.6	25.2	25.7
12H	4H	24.9	25.7	25.4	26.2	26.6	23.6	24.4	24.1	24.9	25.3
	6H	25.0	25.6	25.5	26.1	26.6	23.9	24.6	24.5	25.1	25.6
	8H	24.9	25.5	25.4	26.0	26.6	24.0	24.6	24.5	25.1	25.7

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 5483 Located At Horizontal Angle = 180, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)