



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SH UV FR 950.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 4 SH UV FR 950

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,

[MORE] translucent curved plastic enclosure.

[LAMP] 128 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D21CC80UNVPW-C LED driver labeled as 1420mA

[OTHER] 120.0Vac, 60.00Hz, 0.6096A, 72.99W, 0.998PF, 5.9%THD(i)

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10553
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	72.989
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22229	21400	21380
55	19375	19420	19637
65	15573	16982	17334
75	11302	14513	14676
85	6483	13505	12873

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1311.98	N.A.	12.40
0-30	2790.06	N.A.	26.40
0-40	4568.43	N.A.	43.30
0-60	8008.15	N.A.	75.90
0-80	9982.62	N.A.	94.60
0-90	10364.2	N.A.	98.20
10-90	10025.42	N.A.	95.00
20-40	3256.45	N.A.	30.90
20-50	5081.19	N.A.	48.20
40-70	4655.56	N.A.	44.10
60-80	1974.47	N.A.	18.70
70-80	758.64	N.A.	7.20
80-90	381.58	N.A.	3.60
90-110	188.10	N.A.	1.80
90-120	188.48	N.A.	1.80
90-130	188.48	N.A.	1.80
90-150	188.48	N.A.	1.80
90-180	188.48	N.A.	1.80
110-180	0.38	N.A.	0.00
0-180	10552.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.78
10-20	973.20
20-30	1478.08
30-40	1778.37
40-50	1824.74
50-60	1614.98
60-70	1215.84
70-80	758.64
80-90	381.58
90-100	152.96
100-110	35.14
110-120	0.38
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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	60	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

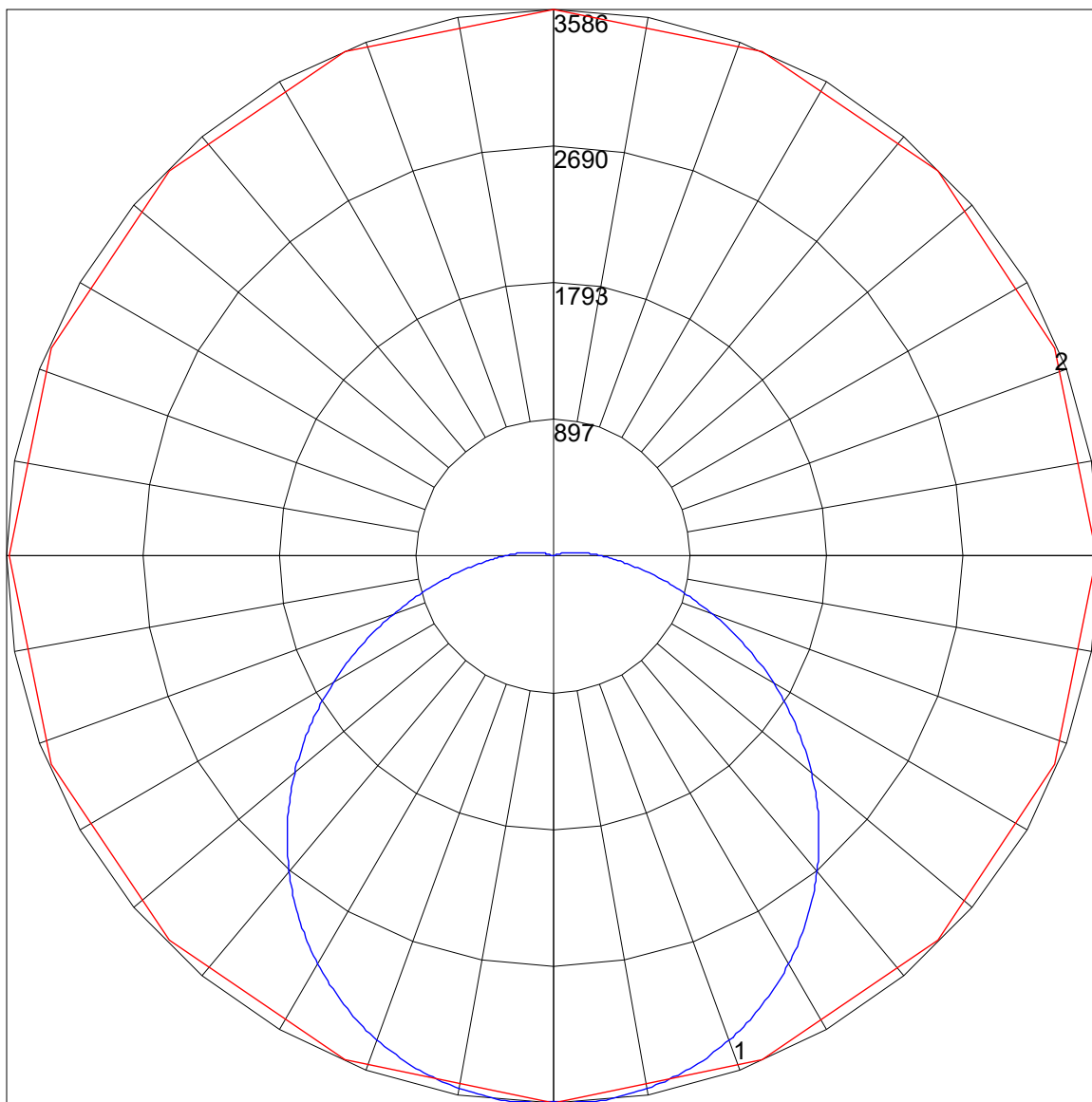
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UGR TABLE - CORRECTED

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	21.2	22.8	21.6	23.2	23.5	22.9	24.5	23.3	24.8	25.2
	3H	22.5	24.0	22.9	24.3	24.7	24.9	26.3	25.3	26.7	27.1
	4H	22.9	24.3	23.3	24.7	25.1	25.7	27.1	26.1	27.5	27.9
	6H	23.1	24.4	23.6	24.8	25.2	26.5	27.8	26.9	28.2	28.6
	8H	23.2	24.4	23.6	24.8	25.3	26.9	28.1	27.3	28.5	29.0
	12H	23.2	24.4	23.7	24.8	25.3	27.3	28.4	27.7	28.8	29.3
4H	2H	22.0	23.4	22.5	23.8	24.2	23.3	24.7	23.8	25.1	25.5
	3H	23.6	24.7	24.0	25.2	25.6	25.6	26.7	26.0	27.2	27.6
	4H	24.1	25.2	24.6	25.6	26.1	26.6	27.6	27.0	28.1	28.6
	6H	24.4	25.4	24.9	25.9	26.4	27.5	28.5	28.0	28.9	29.4
	8H	24.5	25.4	25.0	25.9	26.4	28.0	28.9	28.5	29.3	29.8
	12H	24.6	25.4	25.1	25.9	26.4	28.5	29.3	29.0	29.8	30.3
8H	4H	24.7	25.5	25.1	26.0	26.5	26.8	27.7	27.3	28.1	28.7
	6H	25.2	25.9	25.7	26.4	27.0	27.9	28.7	28.4	29.2	29.7
	8H	25.4	26.0	25.9	26.5	27.1	28.5	29.2	29.1	29.7	30.2
	12H	25.5	26.0	26.0	26.6	27.2	29.1	29.7	29.7	30.3	30.9
12H	4H	24.8	25.6	25.3	26.1	26.6	26.8	27.6	27.3	28.1	28.6
	6H	25.4	26.1	26.0	26.6	27.1	28.0	28.6	28.5	29.1	29.7
	8H	25.6	26.2	26.2	26.8	27.4	28.6	29.2	29.1	29.7	30.3

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 3586 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)