



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 2 HI UV FR 950.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-013(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/2/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 2 HI UV FR 950

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

[MORE] translucent curved plastic enclosure.

[LAMP] 48 white LEDs on one LS3872A LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 420mA

[OTHER] 120.0Vac, 60.00Hz

[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	3180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	22.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.99 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	13191	12850	12969
55	11320	11592	11913
65	8929	10062	10538
75	6341	8509	8965
85	3329	7747	7934

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	396.34	N.A.	12.50
0-30	842.60	N.A.	26.50
0-40	1379.00	N.A.	43.40
0-60	2413.8	N.A.	75.90
0-80	3006.03	N.A.	94.50
0-90	3121.26	N.A.	98.20
10-90	3018.86	N.A.	94.90
20-40	982.66	N.A.	30.90
20-50	1532.26	N.A.	48.20
40-70	1399.25	N.A.	44.00
60-80	592.23	N.A.	18.60
70-80	227.78	N.A.	7.20
80-90	115.22	N.A.	3.60
90-110	58.19	N.A.	1.80
90-120	58.36	N.A.	1.80
90-130	58.36	N.A.	1.80
90-150	58.36	N.A.	1.80
90-180	58.36	N.A.	1.80
110-180	0.17	N.A.	0.00
0-180	3179.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.39
10-20	293.95
20-30	446.26
30-40	536.40
40-50	549.60
50-60	485.20
60-70	364.45
70-80	227.78
80-90	115.22
90-100	46.93
100-110	11.26
110-120	0.17
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	40	51	44	39	49	43	39	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	37	31	42	36	31	41	35	31	29
9	56	42	34	29	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	26	36	30	25	35	29	25	23

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**UGR TABLE - CORRECTED**

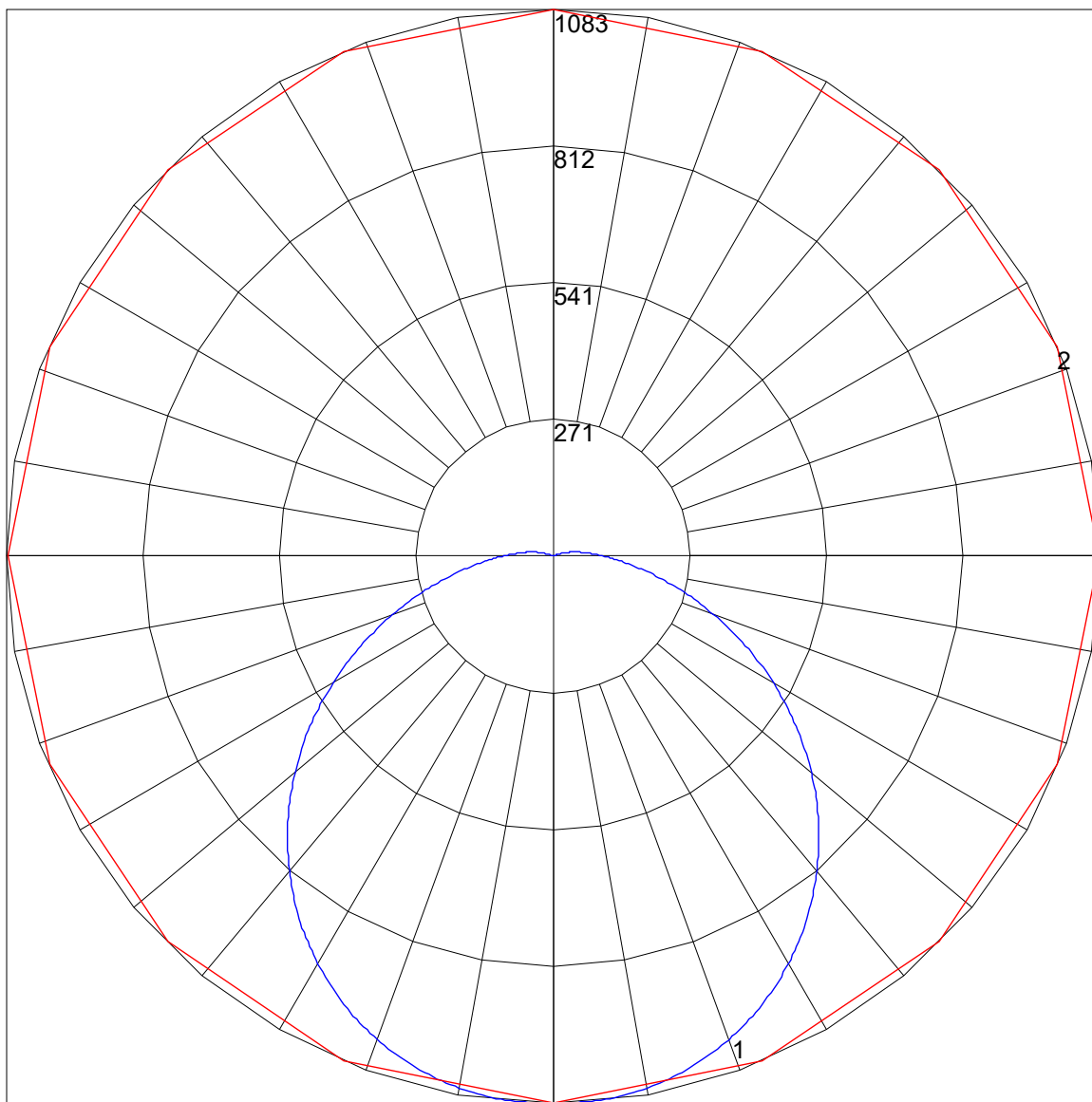
Reflectances

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	19.3	20.9	19.7	21.3	21.7	21.0	22.6	21.4	23.0	23.4
	3H	20.6	22.1	21.0	22.4	22.8	23.0	24.5	23.4	24.8	25.2
	4H	21.0	22.4	21.4	22.8	23.2	23.8	25.2	24.3	25.6	26.0
	6H	21.2	22.5	21.7	22.9	23.3	24.6	25.9	25.1	26.3	26.7
	8H	21.3	22.5	21.7	22.9	23.4	25.0	26.2	25.4	26.6	27.1
	12H	21.3	22.5	21.8	22.9	23.4	25.3	26.5	25.8	26.9	27.4
4H	2H	20.2	21.5	20.6	21.9	22.4	21.5	22.9	21.9	23.3	23.7
	3H	21.7	22.9	22.1	23.3	23.7	23.7	24.9	24.1	25.3	25.8
	4H	22.2	23.3	22.7	23.7	24.2	24.7	25.8	25.2	26.2	26.7
	6H	22.5	23.5	23.0	24.0	24.5	25.6	26.6	26.1	27.1	27.6
	8H	22.6	23.5	23.1	24.0	24.5	26.1	27.0	26.6	27.4	27.9
	12H	22.7	23.5	23.2	24.0	24.5	26.5	27.3	27.1	27.9	28.4
8H	4H	22.8	23.6	23.2	24.1	24.6	24.9	25.8	25.4	26.3	26.8
	6H	23.3	24.0	23.8	24.5	25.0	26.0	26.8	26.6	27.3	27.8
	8H	23.4	24.1	24.0	24.6	25.2	26.6	27.3	27.2	27.8	28.3
	12H	23.5	24.1	24.1	24.7	25.3	27.2	27.8	27.8	28.3	28.9
12H	4H	22.9	23.7	23.4	24.2	24.7	24.9	25.7	25.4	26.2	26.7
	6H	23.5	24.2	24.0	24.6	25.2	26.1	26.8	26.7	27.3	27.8
	8H	23.7	24.3	24.3	24.8	25.4	26.7	27.3	27.3	27.8	28.4

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 1082.646 Located At Horizontal Angle = 90, Vertical Angle = 1.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)