



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SH UV FR 950.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 8 SH UV FR 950

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

[MORE] translucent curved plastic enclosure.

[LAMP] 256 white LEDs on four LS3872A LED boards

[BALLAST] Two ULT D21CC80UNVPW-D LED drivers labeled as 1420mA

[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	21105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	146.7
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)	8.00 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	22402	21506	21380
55	19591	19551	19637
65	15831	17142	17334
75	11624	14719	14676
85	7018	13860	12873

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2623.92	N.A.	12.40
0-30	5580.04	N.A.	26.40
0-40	9136.74	N.A.	43.30
0-60	16016.09	N.A.	75.90
0-80	19964.99	N.A.	94.60
0-90	20728.15	N.A.	98.20
10-90	20050.59	N.A.	95.00
20-40	6512.81	N.A.	30.90
20-50	10162.26	N.A.	48.20
40-70	9311.00	N.A.	44.10
60-80	3948.9	N.A.	18.70
70-80	1517.25	N.A.	7.20
80-90	763.15	N.A.	3.60
90-110	376.20	N.A.	1.80
90-120	376.96	N.A.	1.80
90-130	376.96	N.A.	1.80
90-150	376.96	N.A.	1.80
90-180	376.96	N.A.	1.80
110-180	0.76	N.A.	0.00
0-180	21105.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	677.56
10-20	1946.37
20-30	2956.12
30-40	3556.7
40-50	3649.44
50-60	3229.91
60-70	2431.64
70-80	1517.25
80-90	763.15
90-100	305.92
100-110	70.28
110-120	0.76
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**

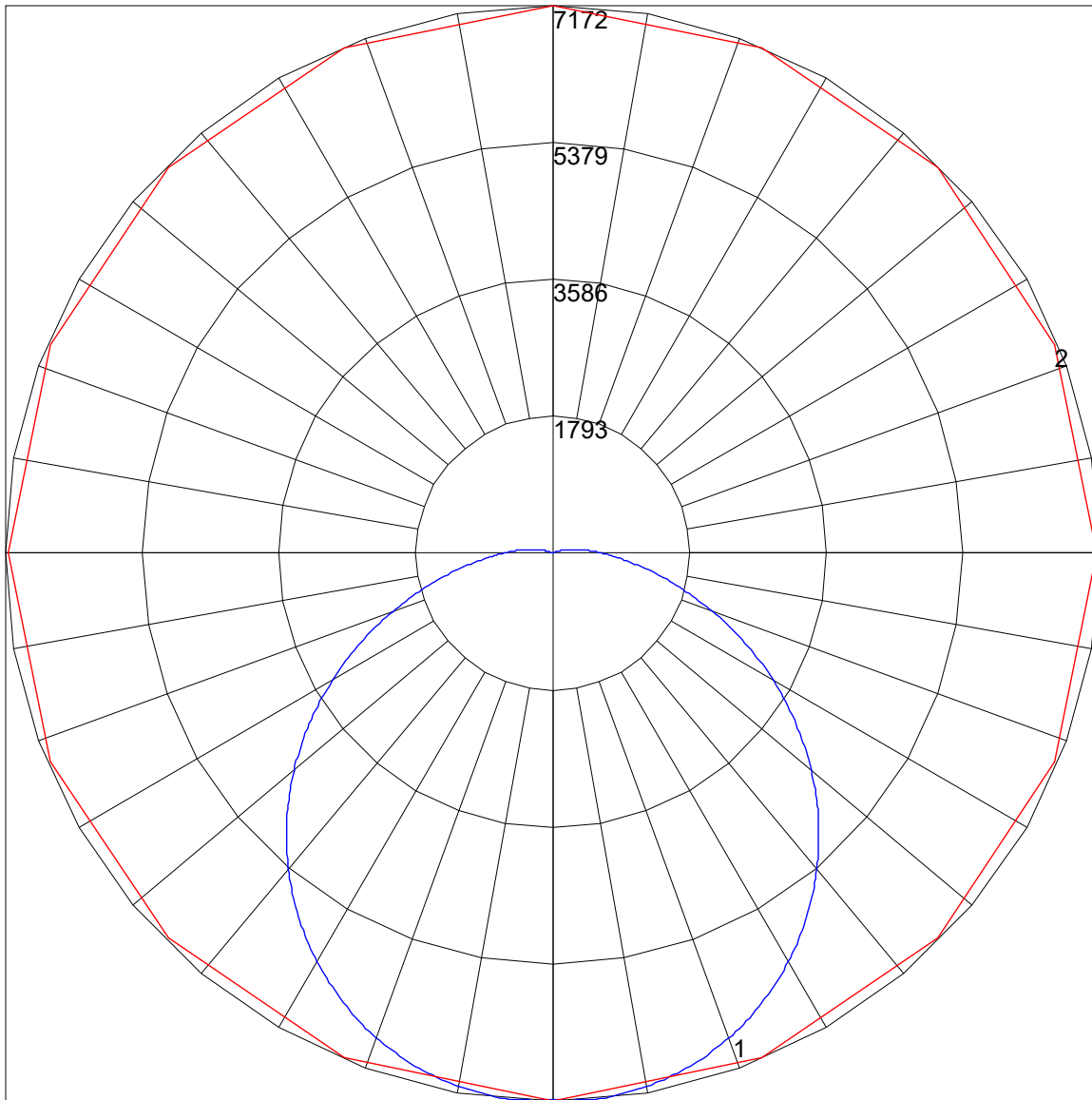
Reflectances

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	24.9	25.2
	3H	22.5	24.0	22.9	24.3	24.7	24.9	26.4	25.3	26.7	27.1
	4H	22.9	24.3	23.3	24.7	25.1	25.7	27.1	26.2	27.5	27.9
	6H	23.1	24.4	23.6	24.8	25.3	26.5	27.8	27.0	28.2	28.7
	8H	23.2	24.4	23.6	24.8	25.3	26.9	28.2	27.4	28.6	29.0
	12H	23.2	24.4	23.7	24.8	25.3	27.3	28.5	27.8	28.9	29.4
4H	2H	22.0	23.4	22.5	23.8	24.2	23.4	24.8	23.8	25.1	25.6
	3H	23.6	24.8	24.0	25.2	25.6	25.6	26.8	26.0	27.2	27.6
	4H	24.1	25.2	24.6	25.6	26.1	26.6	27.7	27.1	28.1	28.6
	6H	24.5	25.4	24.9	25.9	26.4	27.6	28.5	28.1	29.0	29.5
	8H	24.5	25.4	25.0	25.9	26.4	28.0	28.9	28.5	29.4	29.9
	12H	24.6	25.4	25.1	25.9	26.4	28.6	29.3	29.1	29.9	30.4
8H	4H	24.7	25.5	25.2	26.0	26.5	26.8	27.7	27.3	28.2	28.7
	6H	25.2	25.9	25.7	26.4	27.0	28.0	28.7	28.5	29.2	29.8
	8H	25.4	26.0	25.9	26.6	27.1	28.6	29.2	29.1	29.8	30.3
	12H	25.5	26.1	26.0	26.6	27.2	29.2	29.8	29.8	30.3	30.9
12H	4H	24.8	25.6	25.3	26.1	26.6	26.8	27.6	27.4	28.2	28.7
	6H	25.4	26.1	26.0	26.6	27.2	28.1	28.7	28.6	29.2	29.8
	8H	25.7	26.2	26.2	26.8	27.4	28.7	29.3	29.2	29.8	30.4

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 7171.91 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.)