



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 LW UV FR 935.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 4 LW UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMP] 56 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 320mA

[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	2134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	15.4
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	4495	4327	4323
55	3918	3927	3971
65	3149	3434	3505
75	2285	2935	2968
85	1311	2731	2603

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	265.29	N.A.	12.40
0-30	564.18	N.A.	26.40
0-40	923.78	N.A.	43.30
0-60	1619.32	N.A.	75.90
0-80	2018.58	N.A.	94.60
0-90	2095.74	N.A.	98.20
10-90	2027.24	N.A.	95.00
20-40	658.48	N.A.	30.90
20-50	1027.47	N.A.	48.20
40-70	941.40	N.A.	44.10
60-80	399.26	N.A.	18.70
70-80	153.40	N.A.	7.20
80-90	77.16	N.A.	3.60
90-110	38.04	N.A.	1.80
90-120	38.11	N.A.	1.80
90-130	38.11	N.A.	1.80
90-150	38.11	N.A.	1.80
90-180	38.11	N.A.	1.80
110-180	0.08	N.A.	0.00
0-180	2133.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.50
10-20	196.79
20-30	298.88
30-40	359.60
40-50	368.98
50-60	326.56
60-70	245.85
70-80	153.40
80-90	77.16
90-100	30.93
100-110	7.11
110-120	0.08
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**

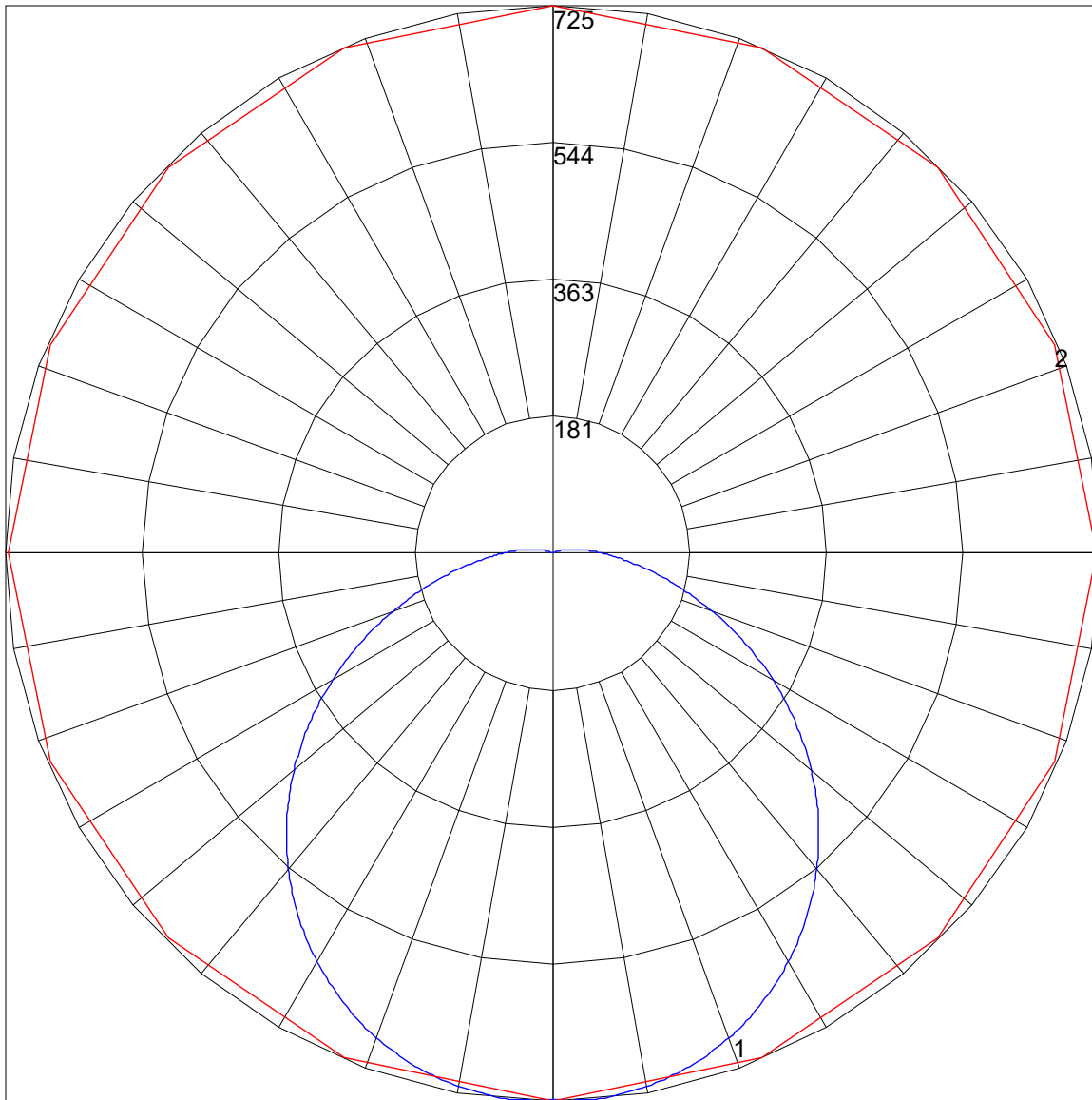
Reflectances

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	15.6	17.2	16.0	17.6	17.9	17.3	18.9	17.7	19.2	19.6
	3H	16.9	18.4	17.3	18.7	19.1	19.3	20.7	19.7	21.1	21.5
	4H	17.3	18.7	17.7	19.1	19.5	20.1	21.5	20.5	21.9	22.3
	6H	17.5	18.8	18.0	19.2	19.6	20.9	22.2	21.3	22.6	23.0
	8H	17.6	18.8	18.0	19.2	19.7	21.3	22.5	21.7	22.9	23.4
	12H	17.6	18.8	18.1	19.2	19.7	21.7	22.8	22.1	23.2	23.7
4H	2H	16.4	17.8	16.9	18.2	18.6	17.7	19.1	18.2	19.5	19.9
	3H	18.0	19.1	18.4	19.6	20.0	20.0	21.1	20.4	21.6	22.0
	4H	18.5	19.6	19.0	20.0	20.5	21.0	22.0	21.4	22.5	23.0
	6H	18.8	19.8	19.3	20.3	20.8	21.9	22.9	22.4	23.3	23.8
	8H	18.9	19.8	19.4	20.3	20.8	22.4	23.3	22.9	23.7	24.2
	12H	19.0	19.8	19.5	20.3	20.8	22.9	23.7	23.4	24.2	24.7
8H	4H	19.1	19.9	19.5	20.4	20.9	21.2	22.1	21.7	22.5	23.1
	6H	19.6	20.3	20.1	20.8	21.4	22.3	23.1	22.8	23.6	24.1
	8H	19.8	20.4	20.3	20.9	21.5	22.9	23.6	23.4	24.1	24.6
	12H	19.9	20.4	20.4	21.0	21.6	23.5	24.1	24.1	24.7	25.3
12H	4H	19.2	20.0	19.7	20.5	21.0	21.2	22.0	21.7	22.5	23.0
	6H	19.8	20.5	20.4	21.0	21.5	22.4	23.0	22.9	23.5	24.1
	8H	20.0	20.6	20.6	21.1	21.8	23.0	23.6	23.5	24.1	24.7

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 725.124 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.)