



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MH 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 MH UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMP] 96 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 670mA

[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	5075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	34.2
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	10691	10293	10283
55	9319	9340	9445
65	7490	8168	8337
75	5436	6980	7058
85	3118	6495	6191

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	631.01	N.A.	12.40
0-30	1341.9	N.A.	26.40
0-40	2197.22	N.A.	43.30
0-60	3851.58	N.A.	75.90
0-80	4801.22	N.A.	94.60
0-90	4984.75	N.A.	98.20
10-90	4821.81	N.A.	95.00
20-40	1566.21	N.A.	30.90
20-50	2443.84	N.A.	48.20
40-70	2239.13	N.A.	44.10
60-80	949.64	N.A.	18.70
70-80	364.87	N.A.	7.20
80-90	183.52	N.A.	3.60
90-110	90.47	N.A.	1.80
90-120	90.65	N.A.	1.80
90-130	90.65	N.A.	1.80
90-150	90.65	N.A.	1.80
90-180	90.65	N.A.	1.80
110-180	0.18	N.A.	0.00
0-180	5075.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.94
10-20	468.07
20-30	710.89
30-40	855.32
40-50	877.63
50-60	776.74
60-70	584.77
70-80	364.87
80-90	183.53
90-100	73.57
100-110	16.90
110-120	0.18
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	26	36	30	25	35	29	25	23

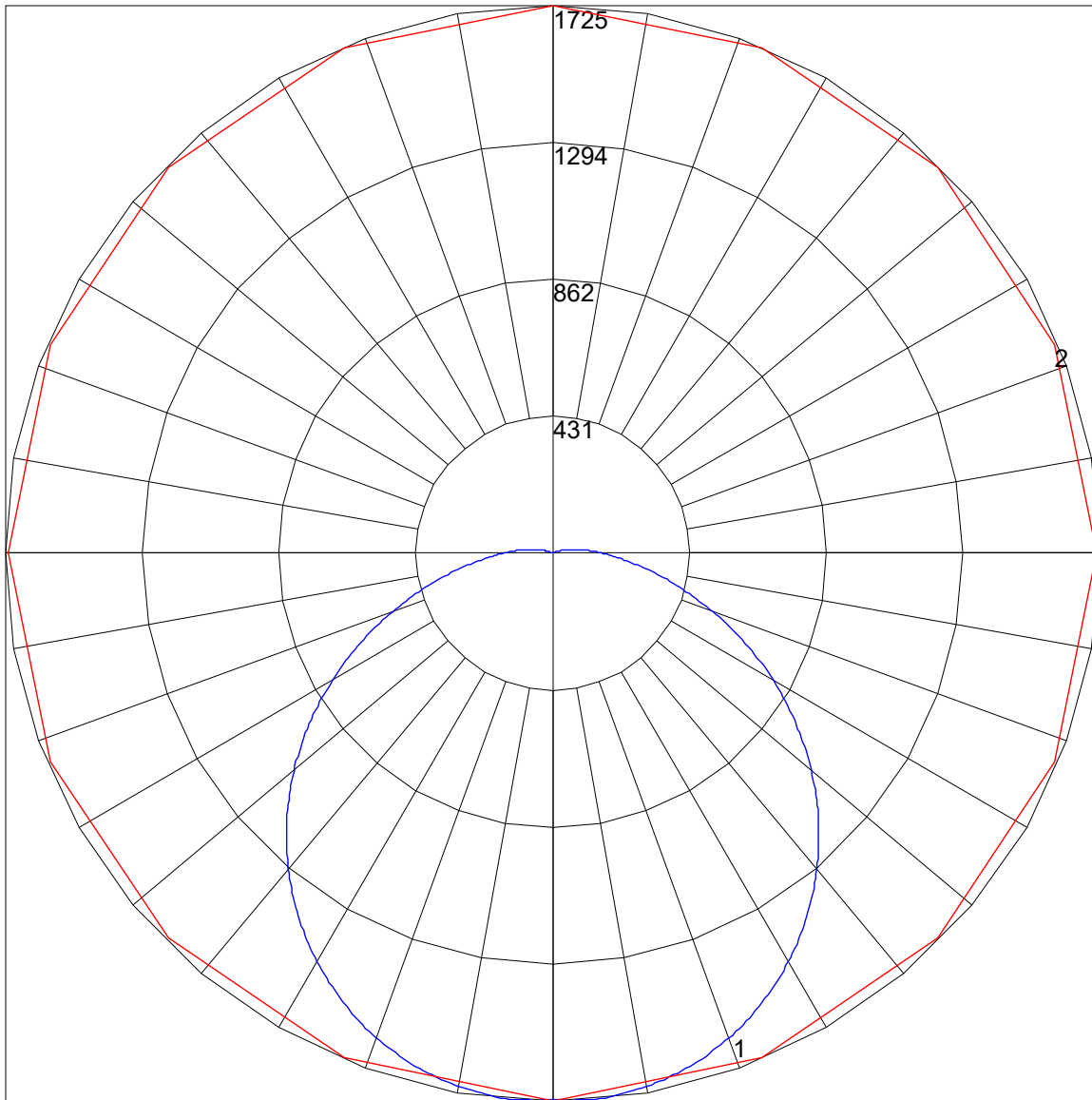
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**UGR TABLE - CORRECTED**

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	18.6	20.2	19.0	20.6	20.9	20.3	21.9	20.7	22.2	22.6
	3H	19.9	21.4	20.3	21.7	22.1	22.3	23.7	22.7	24.1	24.5
	4H	20.3	21.7	20.7	22.1	22.5	23.1	24.5	23.5	24.9	25.3
	6H	20.5	21.8	21.0	22.2	22.6	23.9	25.2	24.3	25.6	26.0
	8H	20.6	21.8	21.0	22.2	22.7	24.3	25.5	24.7	25.9	26.4
	12H	20.6	21.8	21.1	22.2	22.7	24.7	25.8	25.1	26.2	26.7
4H	2H	19.4	20.8	19.9	21.2	21.6	20.7	22.1	21.2	22.5	22.9
	3H	21.0	22.1	21.4	22.6	23.0	23.0	24.1	23.4	24.6	25.0
	4H	21.5	22.6	22.0	23.0	23.5	24.0	25.0	24.4	25.5	26.0
	6H	21.8	22.8	22.3	23.3	23.8	24.9	25.9	25.4	26.3	26.8
	8H	21.9	22.8	22.4	23.3	23.8	25.4	26.3	25.9	26.7	27.2
	12H	22.0	22.8	22.5	23.3	23.8	25.9	26.7	26.4	27.2	27.7
8H	4H	22.1	22.9	22.5	23.4	23.9	24.2	25.1	24.7	25.5	26.1
	6H	22.6	23.3	23.1	23.8	24.4	25.3	26.1	25.8	26.6	27.1
	8H	22.8	23.4	23.3	23.9	24.5	25.9	26.6	26.4	27.1	27.6
	12H	22.9	23.4	23.4	24.0	24.6	26.5	27.1	27.1	27.7	28.3
12H	4H	22.2	23.0	22.7	23.5	24.0	24.2	25.0	24.7	25.5	26.0
	6H	22.8	23.5	23.4	24.0	24.5	25.4	26.0	25.9	26.5	27.1
	8H	23.0	23.6	23.6	24.2	24.8	26.0	26.6	26.5	27.1	27.7

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1724.716 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.)