



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MH UV 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 4 MH UV 935

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

[MORE] no 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	5335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	34.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12681	12255	12177
55	12465	11889	11562
65	11780	10818	10424
75	10035	8487	7945
85	5636	3811	3426

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	652.46	N.A.	12.20
0-30	1397.25	N.A.	26.20
0-40	2313.3	N.A.	43.40
0-60	4185.39	N.A.	78.50
0-80	5248.68	N.A.	98.40
0-90	5334.39	N.A.	100.00
10-90	5166.42	N.A.	96.80
20-40	1660.84	N.A.	31.10
20-50	2634.48	N.A.	49.40
40-70	2559.54	N.A.	48.00
60-80	1063.29	N.A.	19.90
70-80	375.84	N.A.	7.00
80-90	85.71	N.A.	1.60
90-110	0.47	N.A.	0.00
90-120	0.47	N.A.	0.00
90-130	0.47	N.A.	0.00
90-150	0.47	N.A.	0.00
90-180	0.47	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5334.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.97
10-20	484.49
20-30	744.79
30-40	916.05
40-50	973.64
50-60	898.45
60-70	687.45
70-80	375.84
80-90	85.71
90-100	0.47
100-110	0.00
110-120	0.00
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	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	36	30	25	23

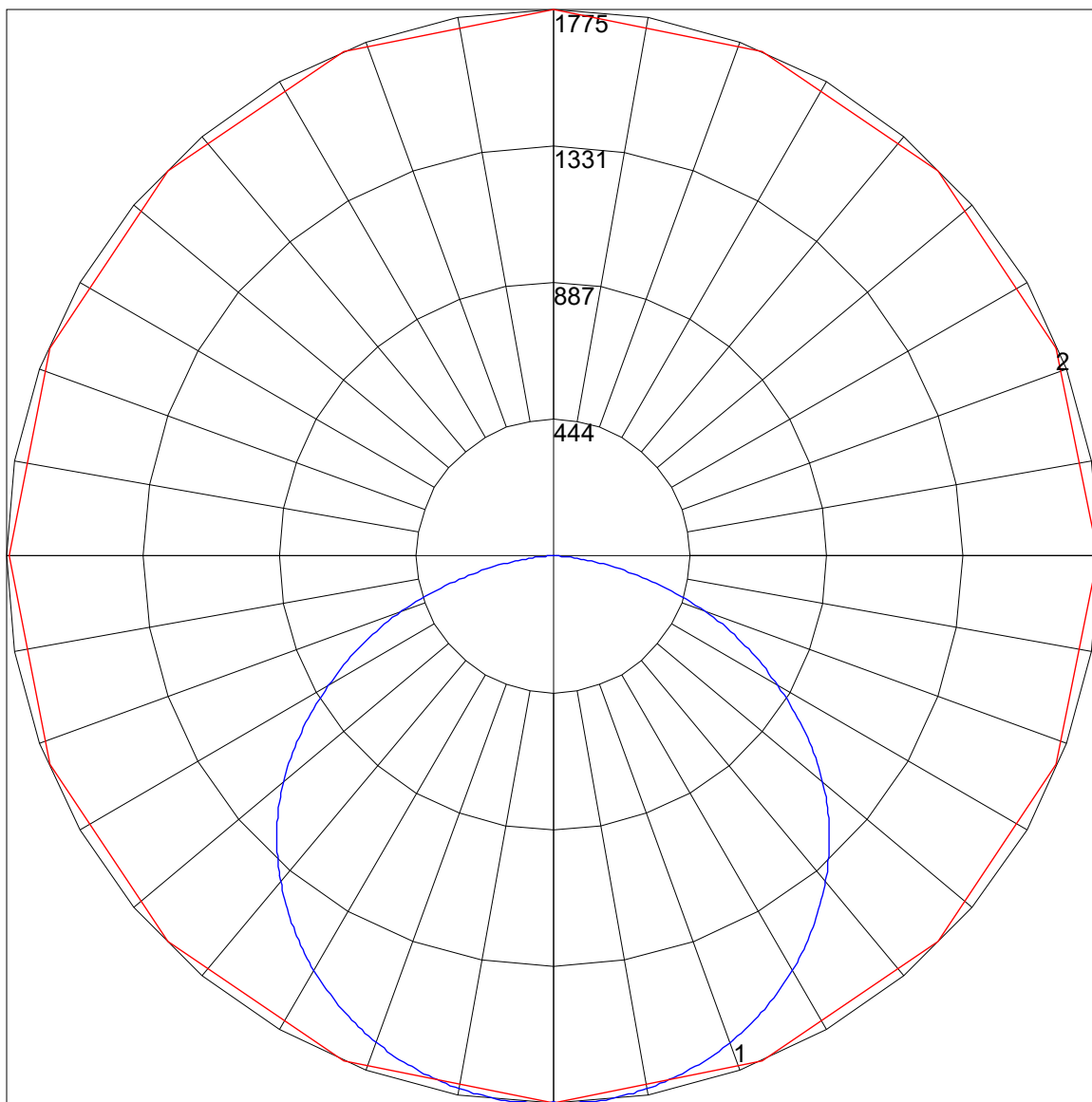
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**UGR TABLE - CORRECTED**

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	20.8	22.5	21.2	22.8	23.1	20.9	22.6	21.3	22.9	23.2
	3H	22.6	24.1	23.0	24.4	24.8	22.7	24.2	23.1	24.6	24.9
	4H	23.2	24.6	23.6	25.0	25.3	23.3	24.7	23.7	25.1	25.5
	6H	23.6	24.9	24.0	25.3	25.7	23.7	25.0	24.1	25.4	25.8
	8H	23.7	24.9	24.1	25.3	25.7	23.8	25.1	24.2	25.4	25.8
	12H	23.7	24.9	24.1	25.3	25.7	23.8	25.1	24.3	25.4	25.9
4H	2H	21.5	22.9	21.9	23.2	23.6	21.6	23.0	22.0	23.3	23.7
	3H	23.4	24.6	23.8	25.0	25.4	23.5	24.7	23.9	25.1	25.5
	4H	24.2	25.2	24.6	25.6	26.1	24.2	25.3	24.6	25.7	26.1
	6H	24.7	25.6	25.1	26.0	26.5	24.7	25.6	25.2	26.1	26.5
	8H	24.8	25.7	25.2	26.1	26.6	24.8	25.7	25.3	26.2	26.6
	12H	24.8	25.6	25.3	26.1	26.6	24.9	25.7	25.4	26.2	26.7
8H	4H	24.4	25.3	24.9	25.7	26.2	24.5	25.4	24.9	25.8	26.3
	6H	25.0	25.7	25.5	26.2	26.7	25.0	25.8	25.5	26.3	26.7
	8H	25.1	25.8	25.7	26.3	26.8	25.2	25.9	25.7	26.4	26.9
	12H	25.3	25.8	25.8	26.3	26.9	25.3	25.9	25.8	26.4	27.0
12H	4H	24.4	25.2	24.9	25.7	26.2	24.5	25.3	25.0	25.8	26.2
	6H	25.0	25.7	25.5	26.1	26.7	25.1	25.7	25.6	26.2	26.7
	8H	25.2	25.8	25.7	26.3	26.9	25.3	25.9	25.8	26.4	26.9

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1774.803 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)