



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MH UV 930.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 930

[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	5312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	12627	12204	12126
55	12413	11839	11513
65	11730	10773	10380
75	9993	8451	7912
85	5612	3795	3411

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	649.72	N.A.	12.20
0-30	1391.38	N.A.	26.20
0-40	2303.59	N.A.	43.40
0-60	4167.82	N.A.	78.50
0-80	5226.64	N.A.	98.40
0-90	5312.00	N.A.	100.00
10-90	5144.73	N.A.	96.80
20-40	1653.86	N.A.	31.10
20-50	2623.42	N.A.	49.40
40-70	2548.8	N.A.	48.00
60-80	1058.82	N.A.	19.90
70-80	374.26	N.A.	7.00
80-90	85.35	N.A.	1.60
90-110	0.46	N.A.	0.00
90-120	0.46	N.A.	0.00
90-130	0.46	N.A.	0.00
90-150	0.46	N.A.	0.00
90-180	0.46	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5312.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.26
10-20	482.46
20-30	741.66
30-40	912.20
40-50	969.56
50-60	894.68
60-70	684.56
70-80	374.26
80-90	85.35
90-100	0.46
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	69	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	36	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	41	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

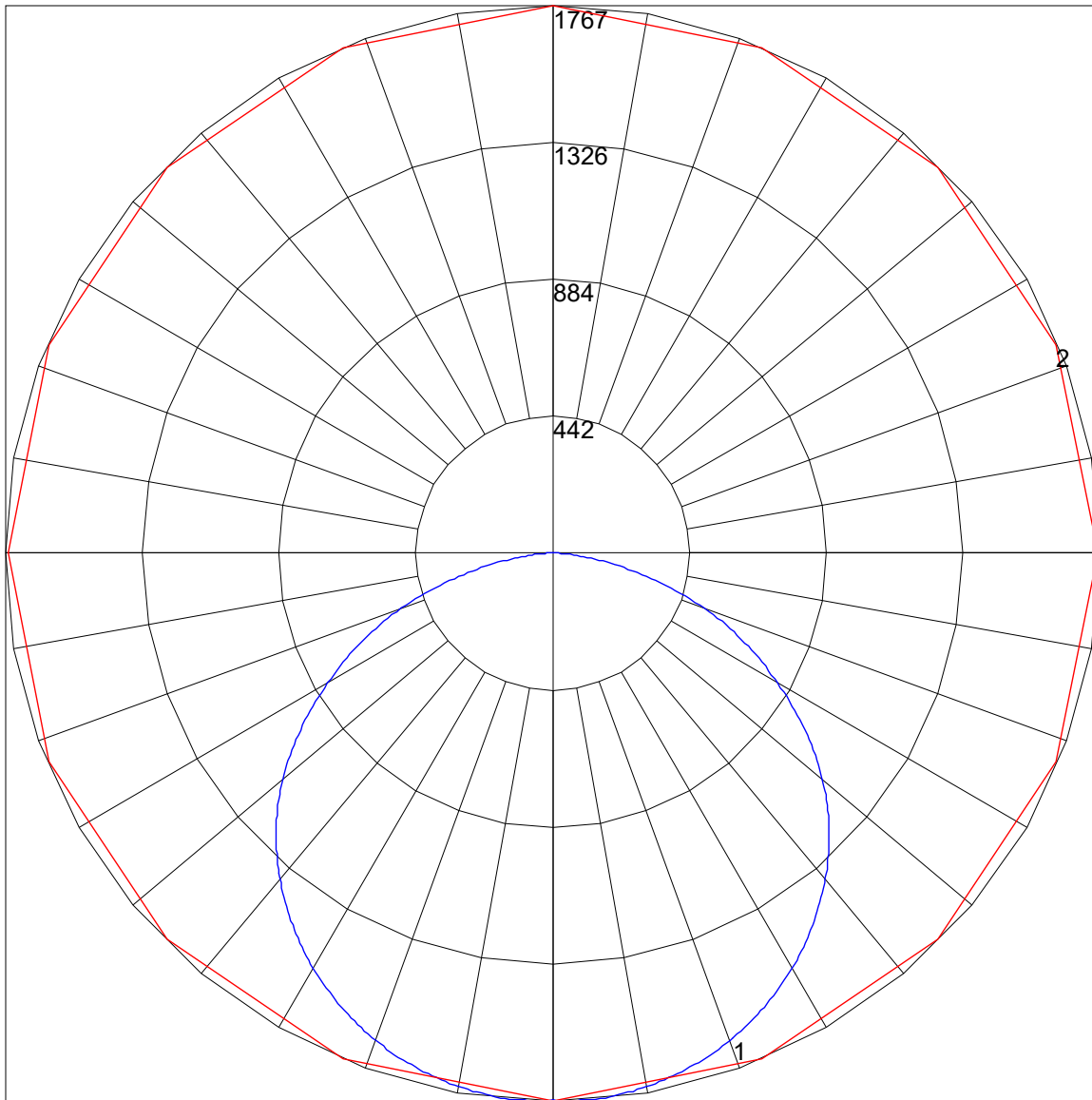
X=2H	Y=2H	20.8	22.5	21.2	22.8	23.1	20.9	22.6	21.3	22.9	23.2
	3H	22.6	24.1	23.0	24.4	24.8	22.7	24.2	23.1	24.6	24.9
	4H	23.2	24.6	23.6	25.0	25.3	23.3	24.7	23.7	25.1	25.5
	6H	23.6	24.9	24.0	25.3	25.7	23.7	25.0	24.1	25.4	25.8
	8H	23.7	24.9	24.1	25.3	25.7	23.8	25.1	24.2	25.4	25.8
	12H	23.7	24.9	24.1	25.3	25.7	23.8	25.1	24.3	25.4	25.9

UGR Viewed Endwise

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	25.6	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	26.8	25.3	25.9	25.8	26.3	26.9

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1767.353 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.)