



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SH UV 940.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 SH UV 940

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

[MORE] no enclosure.

[LAMP] 128 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D21CC80UNVPW-C LED driver labeled as 1420mA

[OTHER] 120.0Vac, 60.00Hz, 0.6110A, 73.16W, 0.998PF, 5.8%THD(i)

[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	11092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	73.16
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	26364	25480	25318
55	25916	24719	24038
65	24491	22492	21673
75	20865	17646	16519
85	11718	7923	7122

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1356.53	N.A.	12.20
0-30	2905.02	N.A.	26.20
0-40	4809.58	N.A.	43.40
0-60	8701.86	N.A.	78.50
0-80	10912.54	N.A.	98.40
0-90	11090.75	N.A.	100.00
10-90	10741.53	N.A.	96.80
20-40	3453.05	N.A.	31.10
20-50	5477.35	N.A.	49.40
40-70	5321.55	N.A.	48.00
60-80	2210.68	N.A.	19.90
70-80	781.41	N.A.	7.00
80-90	178.21	N.A.	1.60
90-110	0.97	N.A.	0.00
90-120	0.97	N.A.	0.00
90-130	0.97	N.A.	0.00
90-150	0.97	N.A.	0.00
90-180	0.97	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11091.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	349.23
10-20	1007.31
20-30	1548.49
30-40	1904.56
40-50	2024.3
50-60	1867.98
60-70	1429.27
70-80	781.41
80-90	178.21
90-100	0.97
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

X=2H	Y=2H	23.4	25.1	23.8	25.4	25.7	UGR Viewed Endwise				
	3H	25.2	26.7	25.6	27.0	27.4	23.5	25.2	23.9	25.5	25.8
	4H	25.8	27.2	26.2	27.6	27.9	25.3	26.8	25.7	27.2	27.5
	6H	26.2	27.5	26.6	27.9	28.3	25.9	27.3	26.3	27.7	28.1
	8H	26.3	27.5	26.7	27.9	28.3	26.3	27.6	26.7	28.0	28.4
	12H	26.3	27.5	26.7	27.9	28.3	26.4	27.7	26.8	28.0	28.4

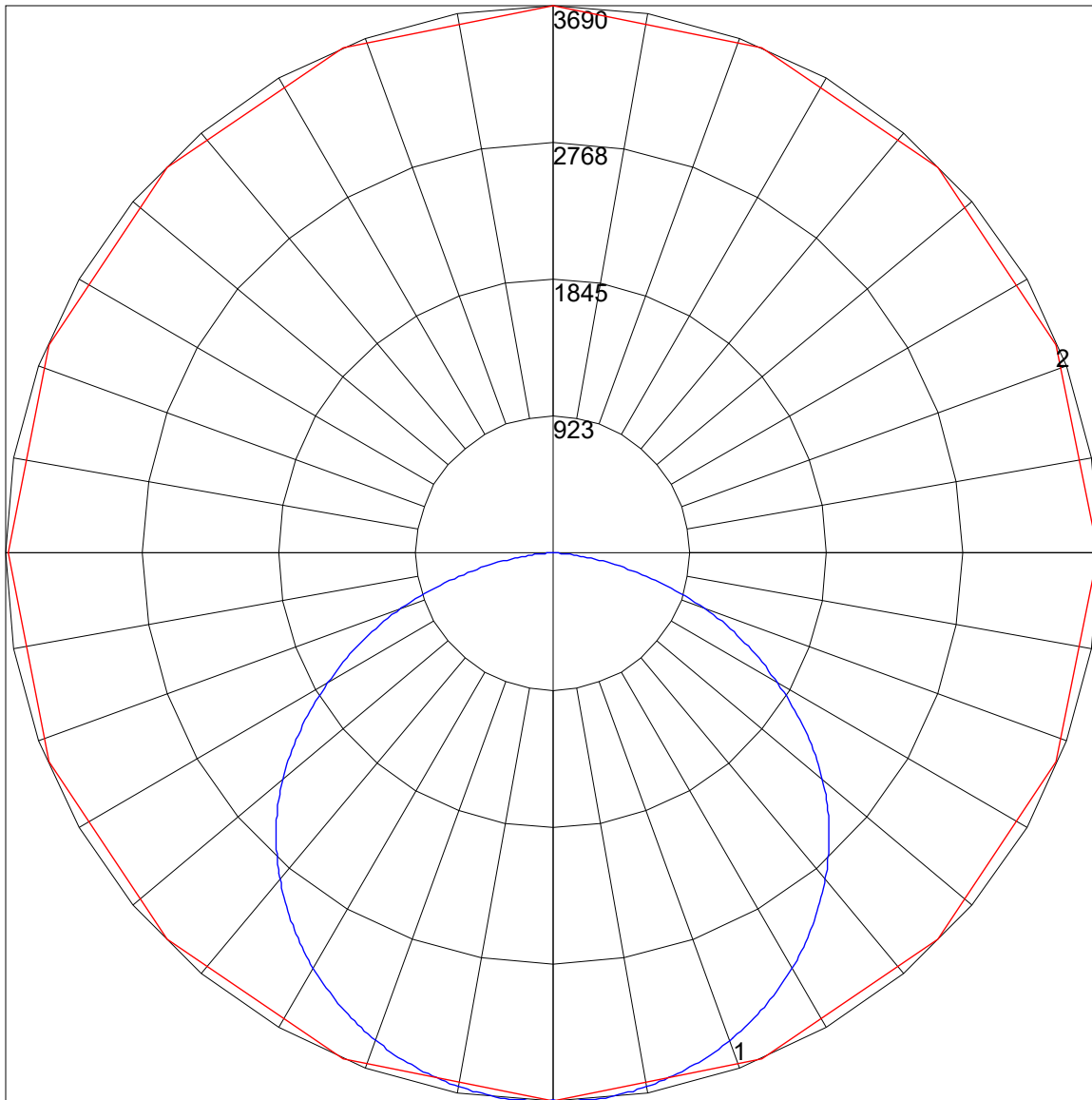
4H	2H	24.1	25.5	24.5	25.8	26.2	24.2	25.6	24.6	25.9	26.3
	3H	26.0	27.2	26.4	27.6	28.0	26.1	27.3	26.5	27.7	28.1
	4H	26.8	27.8	27.2	28.2	28.7	26.8	27.9	27.2	28.3	28.7
	6H	27.3	28.2	27.7	28.6	29.1	27.3	28.2	27.8	28.7	29.1
	8H	27.4	28.2	27.8	28.7	29.2	27.4	28.3	27.9	28.8	29.2
	12H	27.4	28.2	27.9	28.7	29.2	27.5	28.3	28.0	28.8	29.3

8H	4H	27.0	27.9	27.5	28.3	28.8	27.1	28.0	27.5	28.4	28.9
	6H	27.6	28.3	28.1	28.8	29.3	27.6	28.4	28.1	28.9	29.3
	8H	27.7	28.4	28.3	28.9	29.4	27.8	28.5	28.3	29.0	29.5
	12H	27.9	28.4	28.4	28.9	29.5	27.9	28.5	28.4	29.0	29.6

12H	4H	27.0	27.8	27.5	28.3	28.8	27.1	27.9	27.6	28.4	28.8
	6H	27.6	28.3	28.1	28.7	29.3	27.7	28.3	28.2	28.8	29.3
	8H	27.8	28.4	28.3	28.9	29.5	27.9	28.5	28.4	28.9	29.5

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 3690 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.)