



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 ML UV FR 940.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 ML UV FR 940

[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 480mA

[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	3247
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	22.3
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	6839	6584	6578
55	5961	5975	6042
65	4791	5225	5333
75	3477	4465	4515
85	1995	4155	3961

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	403.66	N.A.	12.40
0-30	858.43	N.A.	26.40
0-40	1405.59	N.A.	43.30
0-60	2463.91	N.A.	75.90
0-80	3071.41	N.A.	94.60
0-90	3188.81	N.A.	98.20
10-90	3084.58	N.A.	95.00
20-40	1001.93	N.A.	30.90
20-50	1563.36	N.A.	48.20
40-70	1432.4	N.A.	44.10
60-80	607.50	N.A.	18.70
70-80	233.41	N.A.	7.20
80-90	117.40	N.A.	3.60
90-110	57.87	N.A.	1.80
90-120	57.99	N.A.	1.80
90-130	57.99	N.A.	1.80
90-150	57.99	N.A.	1.80
90-180	57.99	N.A.	1.80
110-180	0.12	N.A.	0.00
0-180	3246.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.23
10-20	299.43
20-30	454.77
30-40	547.16
40-50	561.43
50-60	496.89
60-70	374.08
70-80	233.41
80-90	117.40
90-100	47.06
100-110	10.81
110-120	0.12
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

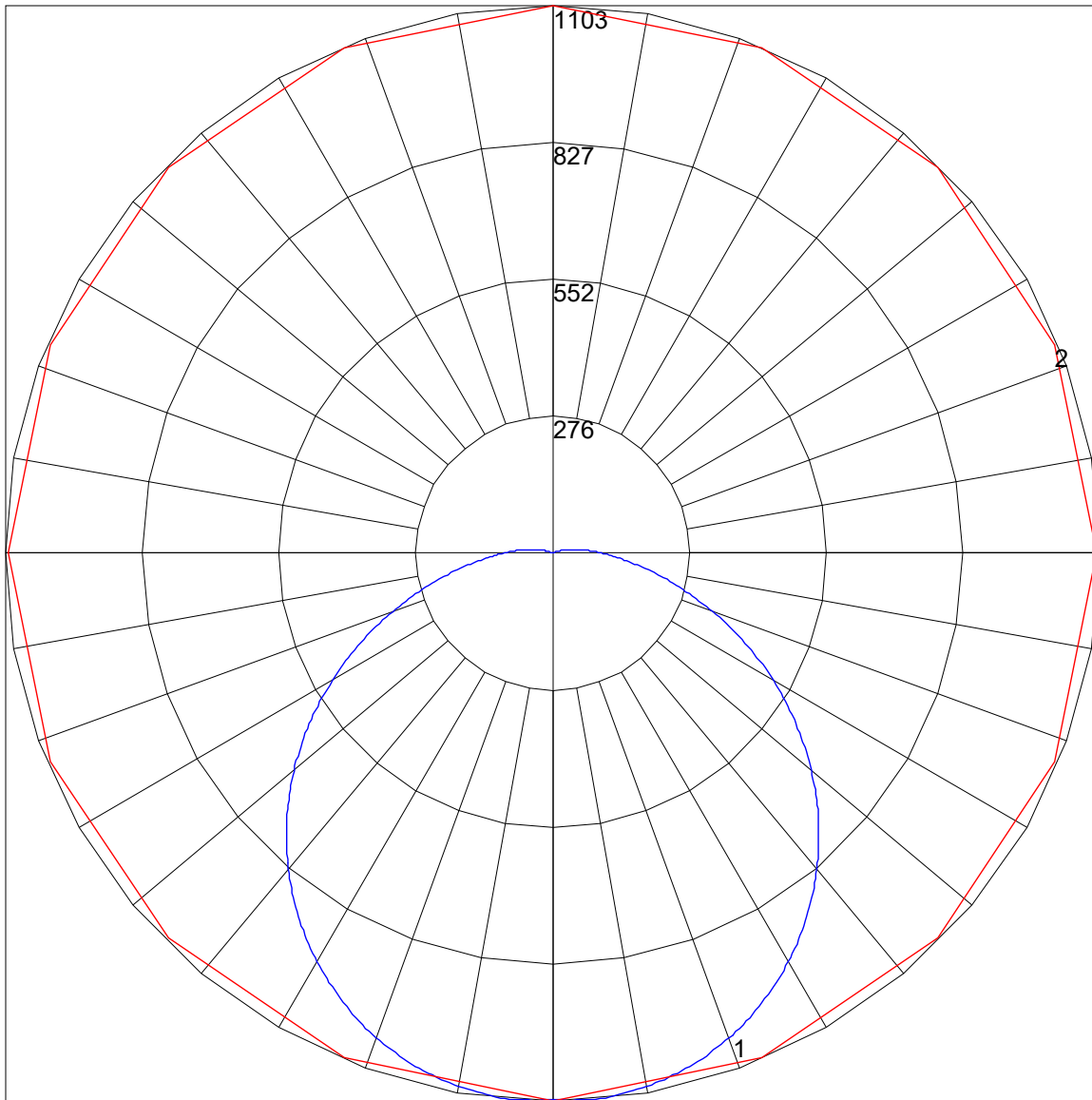
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**UGR TABLE - CORRECTED**

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	17.1	18.7	17.5	19.1	19.4	18.8	20.4	19.2	20.7	21.1
	3H	18.4	19.9	18.8	20.2	20.6	20.8	22.2	21.2	22.6	23.0
	4H	18.8	20.2	19.2	20.6	21.0	21.6	23.0	22.0	23.4	23.8
	6H	19.0	20.3	19.5	20.7	21.1	22.4	23.7	22.8	24.1	24.5
	8H	19.1	20.3	19.5	20.7	21.2	22.8	24.0	23.2	24.4	24.9
	12H	19.1	20.3	19.6	20.7	21.2	23.2	24.3	23.6	24.7	25.2
4H	2H	17.9	19.3	18.4	19.7	20.1	19.2	20.6	19.7	21.0	21.4
	3H	19.5	20.6	19.9	21.1	21.5	21.5	22.6	21.9	23.1	23.5
	4H	20.0	21.1	20.5	21.5	22.0	22.5	23.5	22.9	24.0	24.5
	6H	20.3	21.3	20.8	21.8	22.3	23.4	24.4	23.9	24.8	25.3
	8H	20.4	21.3	20.9	21.8	22.3	23.9	24.8	24.4	25.2	25.7
	12H	20.5	21.3	21.0	21.8	22.3	24.4	25.2	24.9	25.7	26.2
8H	4H	20.6	21.4	21.0	21.9	22.4	22.7	23.6	23.2	24.0	24.6
	6H	21.1	21.8	21.6	22.3	22.9	23.8	24.6	24.3	25.1	25.6
	8H	21.3	21.9	21.8	22.4	23.0	24.4	25.1	24.9	25.6	26.1
	12H	21.4	21.9	21.9	22.5	23.1	25.0	25.6	25.6	26.2	26.8
12H	4H	20.7	21.5	21.2	22.0	22.5	22.7	23.5	23.2	24.0	24.5
	6H	21.3	22.0	21.9	22.5	23.0	23.9	24.5	24.4	25.0	25.6
	8H	21.5	22.1	22.1	22.7	23.3	24.5	25.1	25.0	25.6	26.2

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 1103.324 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.)