



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 MD UV FR 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 4 MD 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 D10CC30UNVPW-C LED driver labeled as 640mA

[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	4160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	29.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16128	14398	14025
55	14002	12704	12422
65	11216	10648	10423
75	8139	8493	8166
85	4684	6852	6191

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	510.06	N.A.	12.30
0-30	1084.57	N.A.	26.10
0-40	1775.72	N.A.	42.70
0-60	3112.22	N.A.	74.80
0-80	3877.5	N.A.	93.20
0-90	4026.66	N.A.	96.80
10-90	3894.91	N.A.	93.60
20-40	1265.66	N.A.	30.40
20-50	1974.98	N.A.	47.50
40-70	1807.88	N.A.	43.50
60-80	765.28	N.A.	18.40
70-80	293.90	N.A.	7.10
80-90	149.16	N.A.	3.60
90-110	100.20	N.A.	2.40
90-120	116.97	N.A.	2.80
90-130	125.84	N.A.	3.00
90-150	132.49	N.A.	3.20
90-180	133.66	N.A.	3.20
110-180	33.45	N.A.	0.80
0-180	4160.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.75
10-20	378.30
20-30	574.52
30-40	691.14
40-50	709.32
50-60	627.19
60-70	471.37
70-80	293.90
80-90	149.16
90-100	67.63
100-110	32.57
110-120	16.77
120-130	8.87
130-140	4.54
140-150	2.11
150-160	0.91
160-170	0.26
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	97	89	82	76	95	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

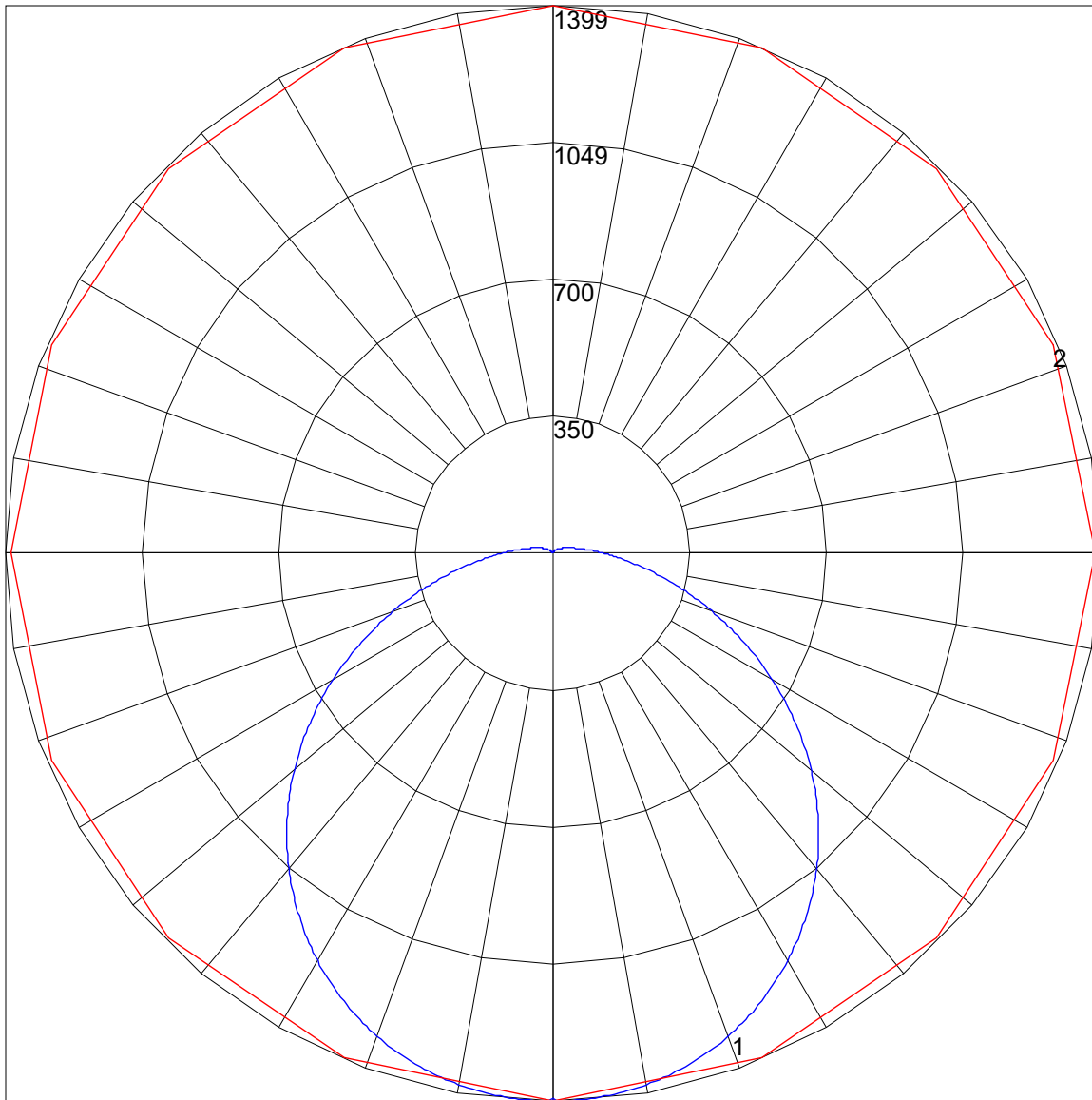
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**UGR TABLE - CORRECTED**

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	19.5	21.1	19.9	21.5	21.9	21.5	23.1	21.9	23.5	23.9
	3H	20.7	22.2	21.2	22.5	23.0	23.5	24.9	23.9	25.3	25.8
	4H	21.1	22.4	21.5	22.8	23.3	24.4	25.7	24.8	26.1	26.6
	6H	21.3	22.5	21.7	23.0	23.4	25.1	26.4	25.6	26.8	27.3
	8H	21.3	22.5	21.8	23.0	23.4	25.5	26.7	26.0	27.2	27.6
	12H	21.3	22.5	21.8	22.9	23.4	25.9	27.0	26.4	27.5	28.0
4H	2H	20.4	21.7	20.8	22.1	22.6	22.0	23.3	22.4	23.7	24.2
	3H	21.8	22.9	22.2	23.4	23.9	24.1	25.3	24.6	25.7	26.2
	4H	22.3	23.3	22.7	23.8	24.3	25.1	26.2	25.6	26.6	27.1
	6H	22.6	23.5	23.1	24.0	24.5	26.1	27.0	26.6	27.5	28.0
	8H	22.6	23.5	23.1	24.0	24.5	26.5	27.4	27.0	27.9	28.4
	12H	22.7	23.4	23.2	24.0	24.5	27.0	27.8	27.5	28.3	28.9
8H	4H	22.8	23.7	23.3	24.2	24.7	25.3	26.2	25.8	26.7	27.2
	6H	23.3	24.0	23.8	24.5	25.1	26.4	27.1	26.9	27.7	28.2
	8H	23.4	24.1	23.9	24.6	25.2	27.0	27.6	27.5	28.2	28.7
	12H	23.5	24.1	24.0	24.6	25.2	27.6	28.2	28.1	28.7	29.3
12H	4H	22.9	23.7	23.4	24.2	24.8	25.3	26.1	25.8	26.6	27.2
	6H	23.5	24.1	24.0	24.6	25.2	26.4	27.1	27.0	27.6	28.2
	8H	23.7	24.3	24.2	24.8	25.4	27.1	27.6	27.6	28.2	28.8

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1399.214 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)