



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SH 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 SH UV FR 940

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,  
[MORE] translucent curved plastic enclosure.

[LAMP] 128 white LEDs on two LS3873A LED boards

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

[OTHER] 120.0Vac, 60.00Hz, 0.6058A, 72.53W, 0.998PF, 6.0%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	10389
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	72.532
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	40273	35954	35023
55	34965	31722	31018
65	28008	26590	26027
75	20323	21209	20392
85	11697	17111	15460

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1273.68	N.A.	12.30
0-30	2708.31	N.A.	26.10
0-40	4434.17	N.A.	42.70
0-60	7771.58	N.A.	74.80
0-80	9682.56	N.A.	93.20
0-90	10055.04	N.A.	96.80
10-90	9726.04	N.A.	93.60
20-40	3160.49	N.A.	30.40
20-50	4931.75	N.A.	47.50
40-70	4514.49	N.A.	43.50
60-80	1910.98	N.A.	18.40
70-80	733.90	N.A.	7.10
80-90	372.48	N.A.	3.60
90-110	250.22	N.A.	2.40
90-120	292.09	N.A.	2.80
90-130	314.23	N.A.	3.00
90-150	330.84	N.A.	3.20
90-180	333.75	N.A.	3.20
110-180	83.53	N.A.	0.80
0-180	10388.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	329.01
10-20	944.67
20-30	1434.63
30-40	1725.86
40-50	1771.25
50-60	1566.16
60-70	1177.08
70-80	733.90
80-90	372.48
90-100	168.88
100-110	81.34
110-120	41.87
120-130	22.14
130-140	11.33
140-150	5.28
150-160	2.26
160-170	0.65
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	94	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

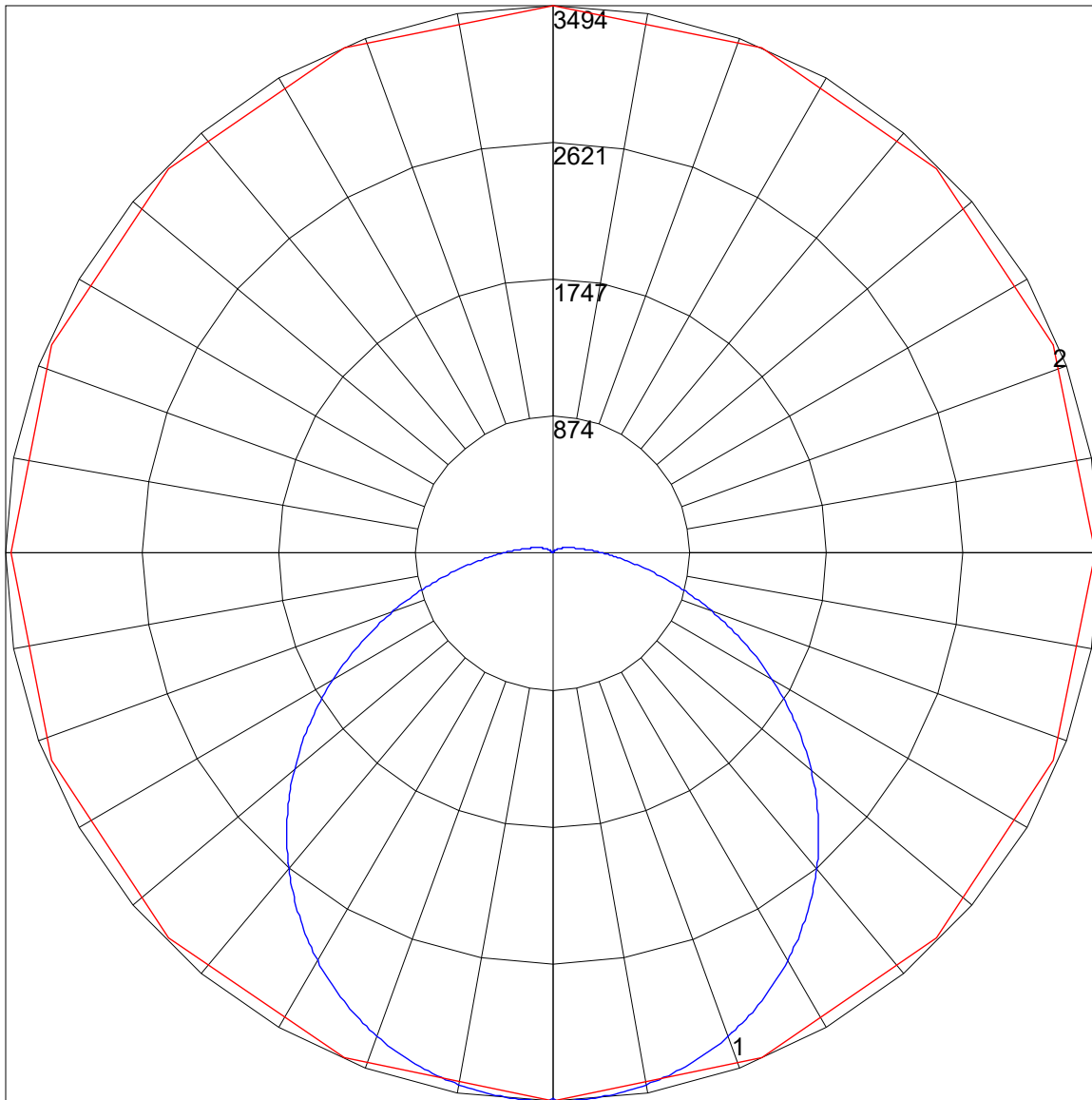
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**UGR TABLE - CORRECTED**

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	22.6	24.2	23.0	24.6	25.0	24.6	26.2	25.0	26.6	27.0
	3H	23.8	25.3	24.3	25.6	26.1	26.6	28.0	27.0	28.4	28.9
	4H	24.2	25.5	24.6	25.9	26.4	27.5	28.8	27.9	29.2	29.7
	6H	24.4	25.6	24.8	26.1	26.5	28.2	29.5	28.7	29.9	30.4
	8H	24.4	25.6	24.9	26.1	26.5	28.6	29.8	29.1	30.3	30.7
	12H	24.4	25.6	24.9	26.0	26.5	29.0	30.2	29.5	30.6	31.1
4H	2H	23.5	24.8	23.9	25.2	25.7	25.1	26.4	25.5	26.8	27.3
	3H	24.9	26.0	25.3	26.5	27.0	27.2	28.4	27.7	28.8	29.3
	4H	25.4	26.4	25.8	26.9	27.4	28.2	29.3	28.7	29.7	30.2
	6H	25.7	26.6	26.2	27.1	27.6	29.2	30.1	29.7	30.6	31.1
	8H	25.7	26.6	26.2	27.1	27.6	29.6	30.5	30.1	31.0	31.5
	12H	25.8	26.5	26.3	27.1	27.6	30.1	30.9	30.6	31.4	32.0
8H	4H	25.9	26.8	26.4	27.3	27.8	28.4	29.3	28.9	29.8	30.3
	6H	26.4	27.1	26.9	27.6	28.2	29.5	30.2	30.0	30.8	31.3
	8H	26.5	27.2	27.0	27.7	28.3	30.1	30.7	30.6	31.3	31.8
	12H	26.6	27.2	27.1	27.7	28.3	30.7	31.3	31.2	31.8	32.4
12H	4H	26.0	26.8	26.5	27.3	27.9	28.4	29.2	28.9	29.7	30.3
	6H	26.6	27.2	27.1	27.7	28.3	29.5	30.2	30.1	30.7	31.3
	8H	26.8	27.4	27.3	27.9	28.5	30.2	30.7	30.7	31.3	31.9

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 3494 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.)