



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL75 UV FR 940 @1400MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 4 SEL75 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 64 LED boards, 4000K

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1400mA

[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	10267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	71.1
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	39803	35534	34614
55	34557	31352	30656
65	27681	26279	25723
75	20086	20961	20154
85	11561	16911	15279

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1258.8	N.A.	12.30
0-30	2676.68	N.A.	26.10
0-40	4382.38	N.A.	42.70
0-60	7680.82	N.A.	74.80
0-80	9569.48	N.A.	93.20
0-90	9937.61	N.A.	96.80
10-90	9612.45	N.A.	93.60
20-40	3123.58	N.A.	30.40
20-50	4874.15	N.A.	47.50
40-70	4461.77	N.A.	43.50
60-80	1888.66	N.A.	18.40
70-80	725.33	N.A.	7.10
80-90	368.13	N.A.	3.60
90-110	247.30	N.A.	2.40
90-120	288.68	N.A.	2.80
90-130	310.56	N.A.	3.00
90-150	326.98	N.A.	3.20
90-180	329.85	N.A.	3.20
110-180	82.56	N.A.	0.80
0-180	10267.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	325.16
10-20	933.64
20-30	1417.88
30-40	1705.71
40-50	1750.57
50-60	1547.87
60-70	1163.33
70-80	725.33
80-90	368.13
90-100	166.91
100-110	80.39
110-120	41.38
120-130	21.88
130-140	11.20
140-150	5.22
150-160	2.24
160-170	0.64
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

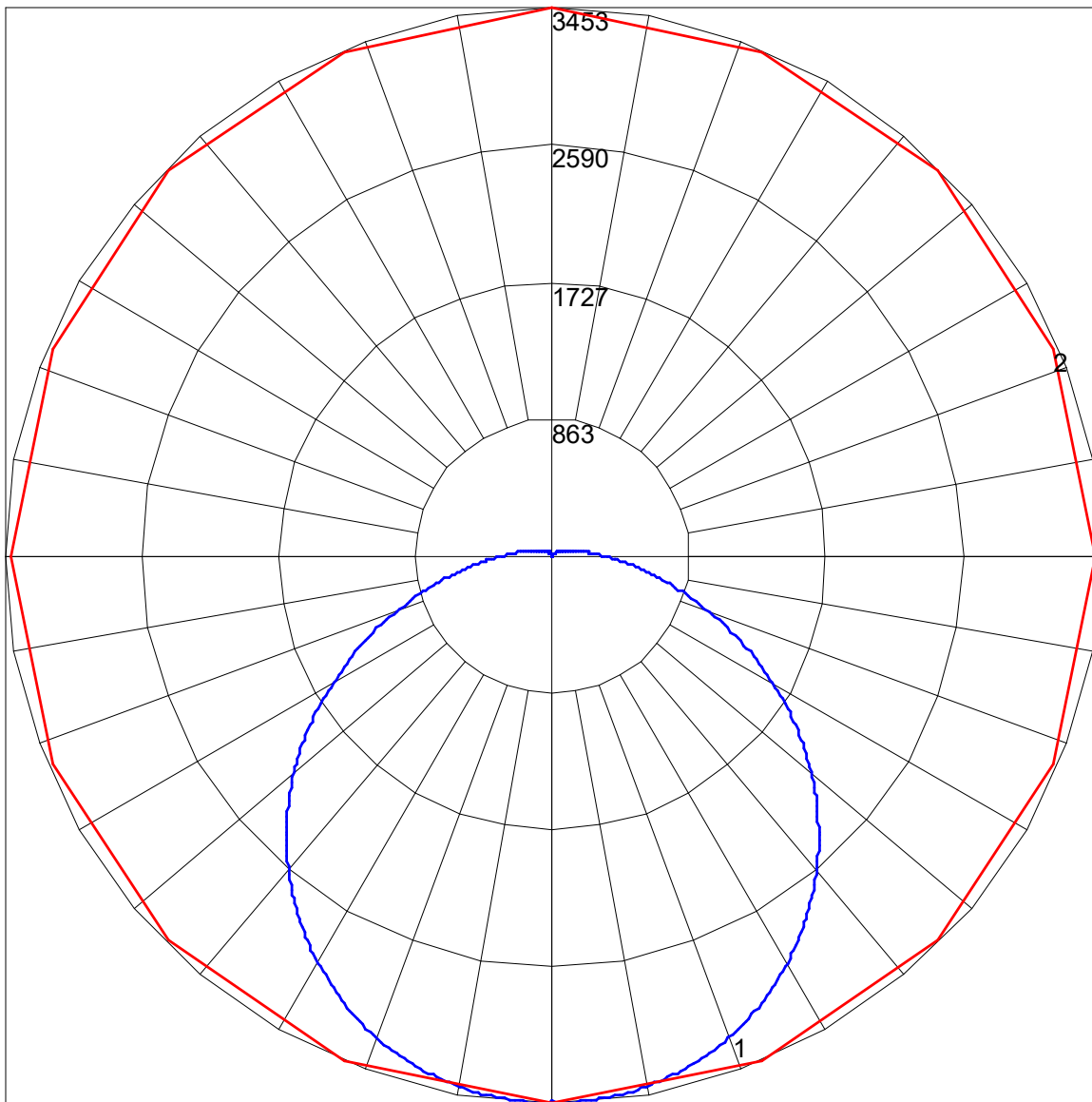
X=2H	Y=2H	22.6	24.2	23.0	24.6	25.0	24.6	26.2	25.0	26.6	27.0
	3H	23.8	25.3	24.3	25.6	26.1	26.6	28.0	27.0	28.4	28.9
	4H	24.2	25.5	24.6	25.9	26.4	27.5	28.8	27.9	29.2	29.7
	6H	24.4	25.6	24.8	26.1	26.5	28.2	29.5	28.7	29.9	30.4
	8H	24.4	25.6	24.9	26.1	26.5	28.6	29.8	29.1	30.3	30.7
	12H	24.4	25.6	24.9	26.0	26.5	29.0	30.1	29.5	30.6	31.1

### UGR Viewed Endwise

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 = 3453.194 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.)