



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 940 @850MA.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 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 850mA

[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	6398
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	42.9
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	24802	22143	21569
55	21533	19536	19103
65	17249	16375	16029
75	12516	13062	12559
85	7204	10538	9521

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	784.40	N.A.	12.30
0-30	1667.93	N.A.	26.10
0-40	2730.81	N.A.	42.70
0-60	4786.18	N.A.	74.80
0-80	5963.07	N.A.	93.20
0-90	6192.47	N.A.	96.80
10-90	5989.85	N.A.	93.60
20-40	1946.41	N.A.	30.40
20-50	3037.25	N.A.	47.50
40-70	2780.28	N.A.	43.50
60-80	1176.89	N.A.	18.40
70-80	451.98	N.A.	7.10
80-90	229.39	N.A.	3.60
90-110	154.10	N.A.	2.40
90-120	179.89	N.A.	2.80
90-130	193.52	N.A.	3.00
90-150	203.75	N.A.	3.20
90-180	205.54	N.A.	3.20
110-180	51.44	N.A.	0.80
0-180	6398.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.62
10-20	581.78
20-30	883.53
30-40	1062.88
40-50	1090.84
50-60	964.53
60-70	724.91
70-80	451.98
80-90	229.39
90-100	104.01
100-110	50.09
110-120	25.79
120-130	13.64
130-140	6.98
140-150	3.25
150-160	1.39
160-170	0.40
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

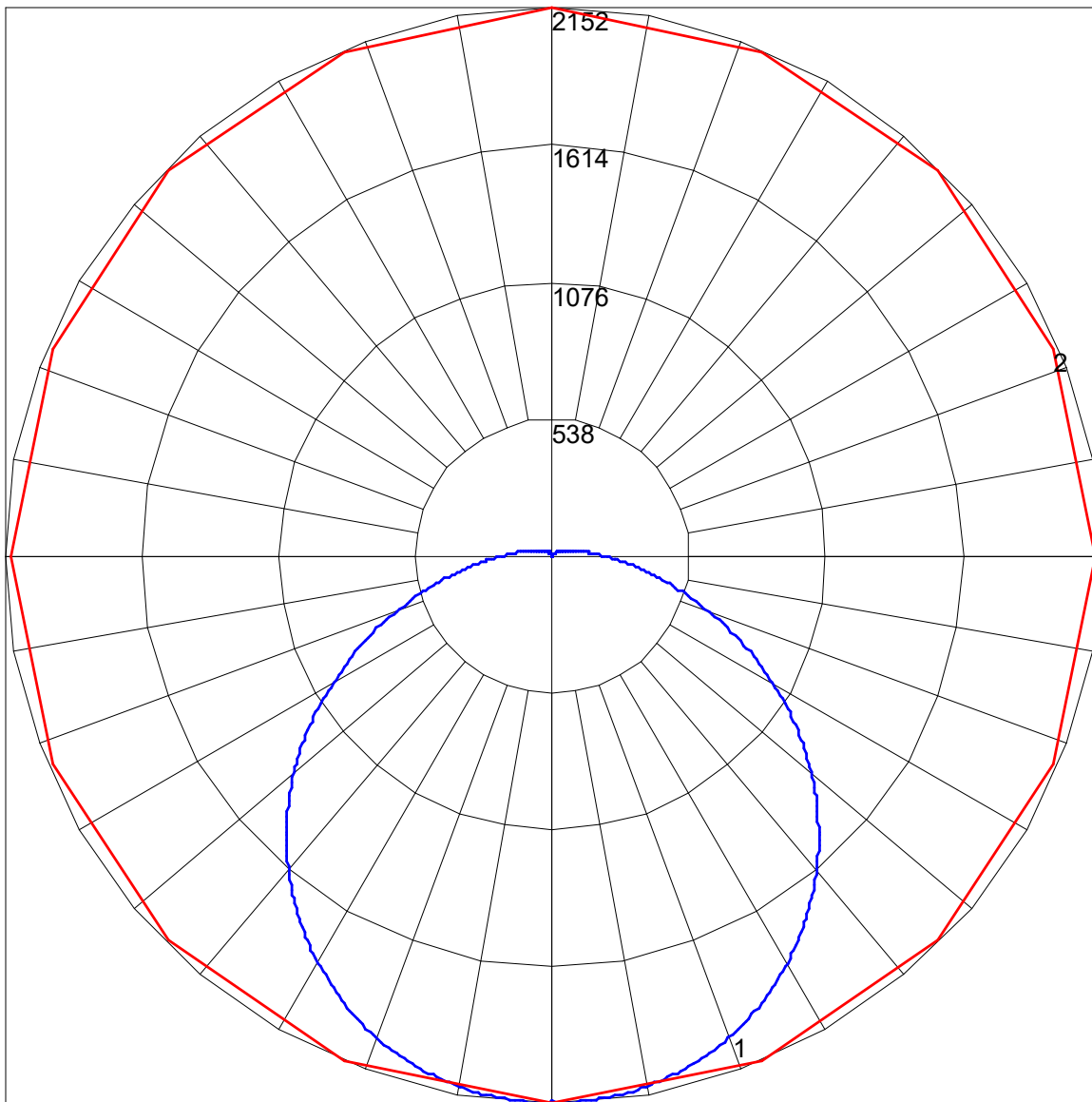
X=2H	Y=2H	21.0	22.6	21.4	23.0	23.4	23.0	24.6	23.4	25.0	25.4
	3H	22.2	23.7	22.7	24.0	24.5	25.0	26.4	25.4	26.8	27.3
	4H	22.6	23.9	23.0	24.3	24.8	25.9	27.2	26.3	27.6	28.1
	6H	22.8	24.0	23.2	24.5	24.9	26.6	27.9	27.1	28.3	28.8
	8H	22.8	24.0	23.3	24.5	24.9	27.0	28.2	27.5	28.7	29.1
	12H	22.8	24.0	23.3	24.4	24.9	27.4	28.6	27.9	29.0	29.5

### UGR Viewed Endwise

4H	2H	21.9	23.2	22.3	23.6	24.1	23.5	24.8	23.9	25.2	25.7
	3H	23.3	24.4	23.7	24.9	25.4	25.6	26.8	26.1	27.2	27.7
	4H	23.8	24.8	24.2	25.3	25.8	26.6	27.7	27.1	28.1	28.6
	6H	24.1	25.0	24.6	25.5	26.0	27.6	28.5	28.1	29.0	29.5
	8H	24.1	25.0	24.6	25.5	26.0	28.0	28.9	28.5	29.4	29.9
	12H	24.2	24.9	24.7	25.5	26.0	28.5	29.3	29.0	29.8	30.4
8H	4H	24.3	25.2	24.8	25.7	26.2	26.8	27.7	27.3	28.2	28.7
	6H	24.8	25.5	25.3	26.0	26.6	27.9	28.6	28.4	29.2	29.7
	8H	24.9	25.6	25.4	26.1	26.7	28.5	29.1	29.0	29.7	30.2
	12H	25.0	25.6	25.5	26.1	26.7	29.1	29.7	29.6	30.2	30.8
12H	4H	24.4	25.2	24.9	25.7	26.3	26.8	27.6	27.3	28.1	28.7
	6H	25.0	25.6	25.5	26.1	26.7	27.9	28.6	28.5	29.1	29.7
	8H	25.2	25.8	25.7	26.3	26.9	28.6	29.1	29.1	29.7	30.3

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 2151.803 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.)