



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL45 UV FR 940 @800MA.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 8 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 800mA

[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	6142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	38.9
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)	7.67 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	12035	10708	10382
55	10484	9462	9195
65	8445	7948	7715
75	6202	6361	6045
85	3763	5167	4583

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	753.03	N.A.	12.30
0-30	1601.22	N.A.	26.10
0-40	2621.59	N.A.	42.70
0-60	4594.76	N.A.	74.80
0-80	5724.58	N.A.	93.20
0-90	5944.79	N.A.	96.80
10-90	5750.28	N.A.	93.60
20-40	1868.56	N.A.	30.40
20-50	2915.77	N.A.	47.50
40-70	2669.08	N.A.	43.50
60-80	1129.82	N.A.	18.40
70-80	433.90	N.A.	7.10
80-90	220.22	N.A.	3.60
90-110	147.94	N.A.	2.40
90-120	172.69	N.A.	2.80
90-130	185.78	N.A.	3.00
90-150	195.60	N.A.	3.20
90-180	197.32	N.A.	3.20
110-180	49.39	N.A.	0.80
0-180	6142.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.52
10-20	558.51
20-30	848.19
30-40	1020.37
40-50	1047.21
50-60	925.95
60-70	695.92
70-80	433.90
80-90	220.22
90-100	99.85
100-110	48.09
110-120	24.75
120-130	13.09
130-140	6.70
140-150	3.12
150-160	1.34
160-170	0.38
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	18.4	20.0	18.8	20.4	20.8	20.5	22.1	20.9	22.4	22.8
	3H	19.6	21.1	20.1	21.5	21.9	22.5	23.9	22.9	24.3	24.7
	4H	20.0	21.3	20.4	21.7	22.2	23.3	24.7	23.8	25.1	25.5
	6H	20.2	21.4	20.6	21.9	22.3	24.1	25.4	24.6	25.8	26.3
	8H	20.2	21.4	20.7	21.9	22.3	24.5	25.7	25.0	26.1	26.6
	12H	20.2	21.4	20.7	21.8	22.3	24.9	26.0	25.4	26.5	27.0

UGR Viewed Endwise

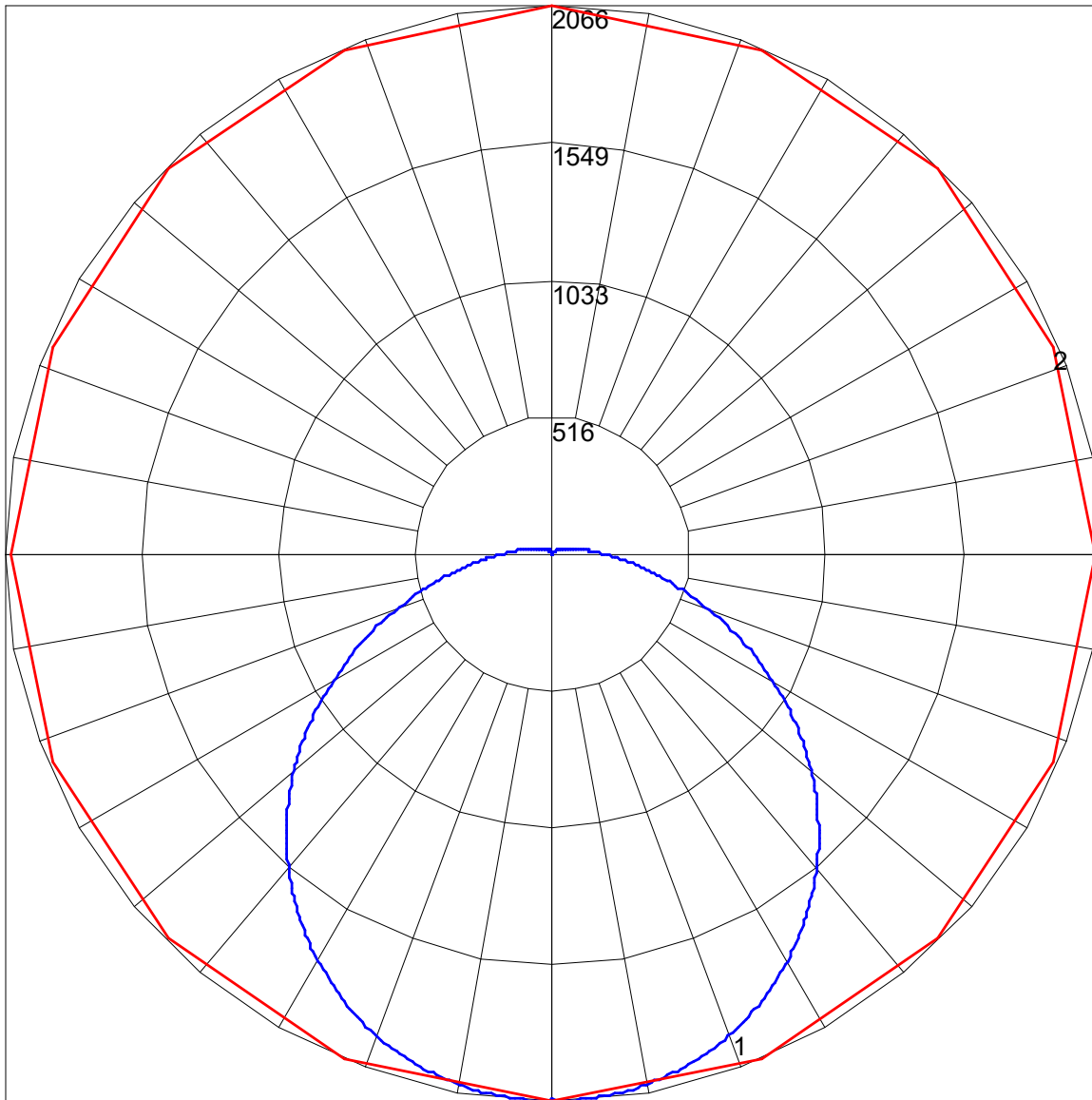
4H	2H	19.3	20.6	19.7	21.0	21.5	20.9	22.2	21.3	22.7	23.1
	3H	20.7	21.9	21.2	22.3	22.8	23.1	24.2	23.5	24.7	25.2
	4H	21.2	22.2	21.7	22.7	23.2	24.1	25.1	24.6	25.6	26.1
	6H	21.5	22.4	22.0	22.9	23.4	25.0	26.0	25.5	26.5	27.0
	8H	21.5	22.4	22.0	22.9	23.4	25.5	26.4	26.0	26.9	27.4
	12H	21.6	22.4	22.1	22.9	23.4	26.0	26.8	26.5	27.3	27.9

8H	4H	21.7	22.6	22.2	23.1	23.6	24.3	25.1	24.8	25.6	26.2
	6H	22.2	22.9	22.7	23.5	24.0	25.4	26.1	25.9	26.6	27.2
	8H	22.3	23.0	22.9	23.5	24.1	25.9	26.6	26.5	27.2	27.7
	12H	22.4	23.0	23.0	23.5	24.2	26.6	27.2	27.1	27.7	28.3

12H	4H	21.8	22.6	22.4	23.2	23.7	24.3	25.0	24.8	25.6	26.1
	6H	22.4	23.0	22.9	23.6	24.2	25.4	26.1	26.0	26.6	27.2
	8H	22.6	23.2	23.2	23.7	24.4	26.0	26.6	26.6	27.2	27.8

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 2065.741 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.)