



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL45 UV FR 940 @700MA.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 700mA

[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	5368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	33.8
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	10519	9359	9074
55	9163	8270	8036
65	7381	6947	6743
75	5421	5560	5283
85	3289	4516	4005

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	658.17	N.A.	12.30
0-30	1399.51	N.A.	26.10
0-40	2291.34	N.A.	42.70
0-60	4015.93	N.A.	74.80
0-80	5003.42	N.A.	93.20
0-90	5195.9	N.A.	96.80
10-90	5025.89	N.A.	93.60
20-40	1633.17	N.A.	30.40
20-50	2548.46	N.A.	47.50
40-70	2332.84	N.A.	43.50
60-80	987.49	N.A.	18.40
70-80	379.24	N.A.	7.10
80-90	192.48	N.A.	3.60
90-110	129.30	N.A.	2.40
90-120	150.94	N.A.	2.80
90-130	162.38	N.A.	3.00
90-150	170.96	N.A.	3.20
90-180	172.46	N.A.	3.20
110-180	43.16	N.A.	0.80
0-180	5368.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.01
10-20	488.15
20-30	741.34
30-40	891.83
40-50	915.29
50-60	809.31
60-70	608.25
70-80	379.24
80-90	192.48
90-100	87.27
100-110	42.03
110-120	21.64
120-130	11.44
130-140	5.85
140-150	2.73
150-160	1.17
160-170	0.34
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

X=2H	Y=2H	17.9	19.5	18.3	19.9	20.3	20.0	21.6	20.4	21.9	22.3
	3H	19.1	20.6	19.6	21.0	21.4	22.0	23.4	22.4	23.8	24.2
	4H	19.5	20.8	19.9	21.2	21.7	22.8	24.2	23.3	24.6	25.0
	6H	19.7	20.9	20.1	21.4	21.8	23.6	24.9	24.1	25.3	25.8
	8H	19.7	20.9	20.2	21.4	21.8	24.0	25.2	24.5	25.6	26.1
	12H	19.7	20.9	20.2	21.3	21.8	24.4	25.5	24.9	26.0	26.5

UGR Viewed Endwise

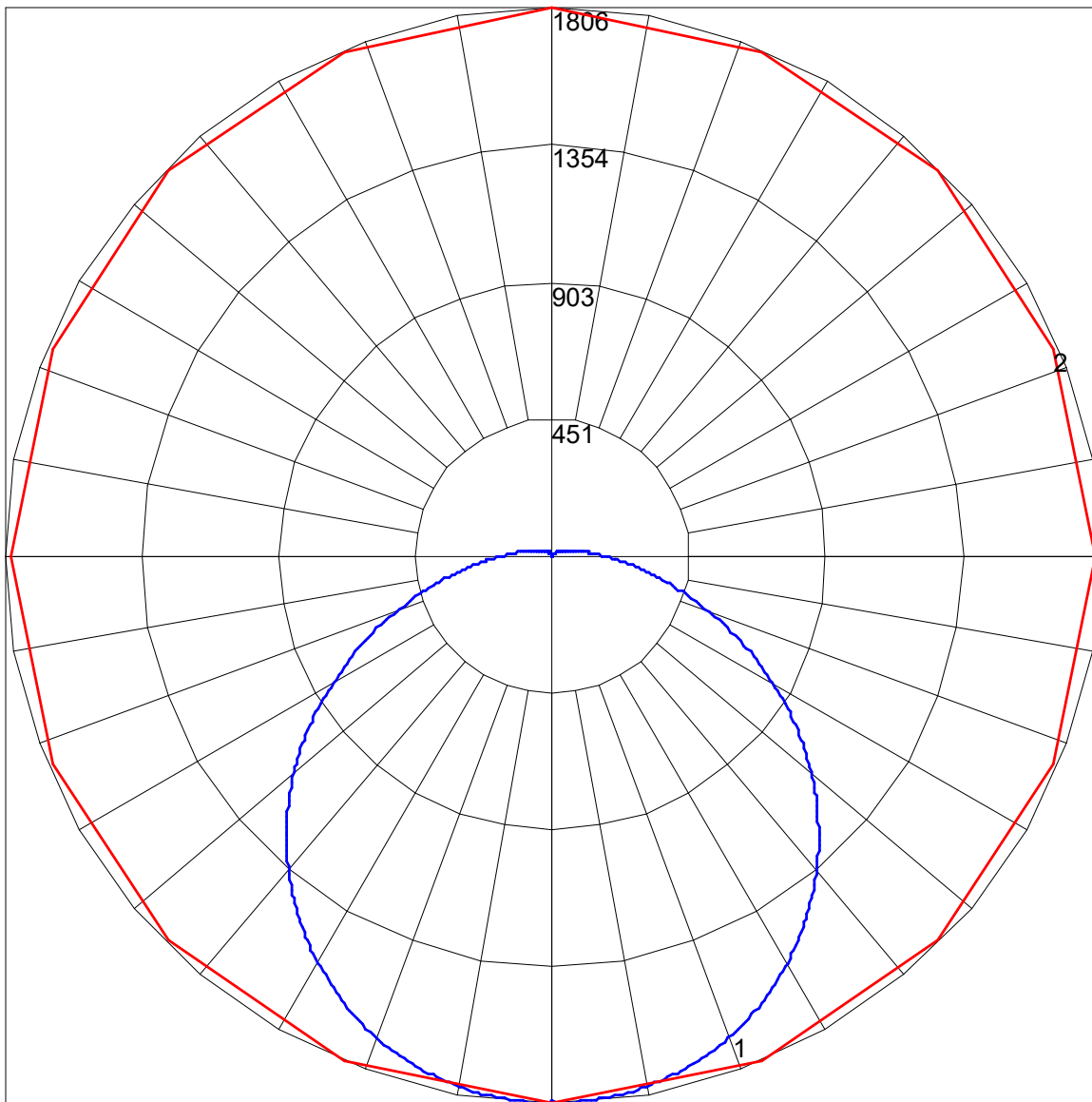
4H	2H	18.8	20.1	19.2	20.5	21.0	20.4	21.7	20.8	22.2	22.6
	3H	20.2	21.4	20.7	21.8	22.3	22.6	23.7	23.0	24.2	24.7
	4H	20.7	21.7	21.2	22.2	22.7	23.6	24.6	24.1	25.1	25.6
	6H	21.0	21.9	21.5	22.4	22.9	24.5	25.5	25.0	26.0	26.5
	8H	21.0	21.9	21.5	22.4	22.9	25.0	25.9	25.5	26.4	26.9
	12H	21.1	21.9	21.6	22.4	22.9	25.5	26.3	26.0	26.8	27.4

8H	4H	21.2	22.1	21.7	22.6	23.1	23.8	24.6	24.3	25.1	25.7
	6H	21.7	22.4	22.2	23.0	23.5	24.9	25.6	25.4	26.1	26.7
	8H	21.8	22.5	22.4	23.0	23.6	25.4	26.1	26.0	26.7	27.2
	12H	21.9	22.5	22.5	23.0	23.7	26.1	26.7	26.6	27.2	27.8

12H	4H	21.3	22.1	21.9	22.7	23.2	23.8	24.5	24.3	25.1	25.6
	6H	21.9	22.5	22.4	23.1	23.7	24.9	25.6	25.5	26.1	26.7
	8H	22.1	22.7	22.7	23.2	23.9	25.5	26.1	26.1	26.7	27.3

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 1805.509 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.)