



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 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 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 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	5336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	34.9
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	20684	18466	17987
55	17957	16292	15931
65	14385	13656	13367
75	10437	10893	10473
85	6008	8788	7940

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	654.14	N.A.	12.30
0-30	1390.94	N.A.	26.10
0-40	2277.31	N.A.	42.70
0-60	3991.35	N.A.	74.80
0-80	4972.8	N.A.	93.20
0-90	5164.1	N.A.	96.80
10-90	4995.13	N.A.	93.60
20-40	1623.18	N.A.	30.40
20-50	2532.86	N.A.	47.50
40-70	2318.57	N.A.	43.50
60-80	981.45	N.A.	18.40
70-80	376.92	N.A.	7.10
80-90	191.30	N.A.	3.60
90-110	128.51	N.A.	2.40
90-120	150.01	N.A.	2.80
90-130	161.38	N.A.	3.00
90-150	169.91	N.A.	3.20
90-180	171.41	N.A.	3.20
110-180	42.90	N.A.	0.80
0-180	5335.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.97
10-20	485.17
20-30	736.80
30-40	886.37
40-50	909.69
50-60	804.35
60-70	604.53
70-80	376.92
80-90	191.30
90-100	86.74
100-110	41.77
110-120	21.50
120-130	11.37
130-140	5.82
140-150	2.71
150-160	1.16
160-170	0.33
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	20.3	21.9	20.7	22.3	22.7	22.3	23.9	22.7	24.3	24.7
	3H	21.5	23.0	22.0	23.3	23.8	24.3	25.7	24.7	26.1	26.6
	4H	21.9	23.2	22.3	23.6	24.1	25.2	26.5	25.6	26.9	27.4
	6H	22.1	23.3	22.5	23.8	24.2	25.9	27.2	26.4	27.6	28.1
	8H	22.1	23.3	22.6	23.8	24.2	26.3	27.5	26.8	28.0	28.4
	12H	22.1	23.3	22.6	23.7	24.2	26.7	27.8	27.2	28.3	28.8

UGR Viewed Endwise

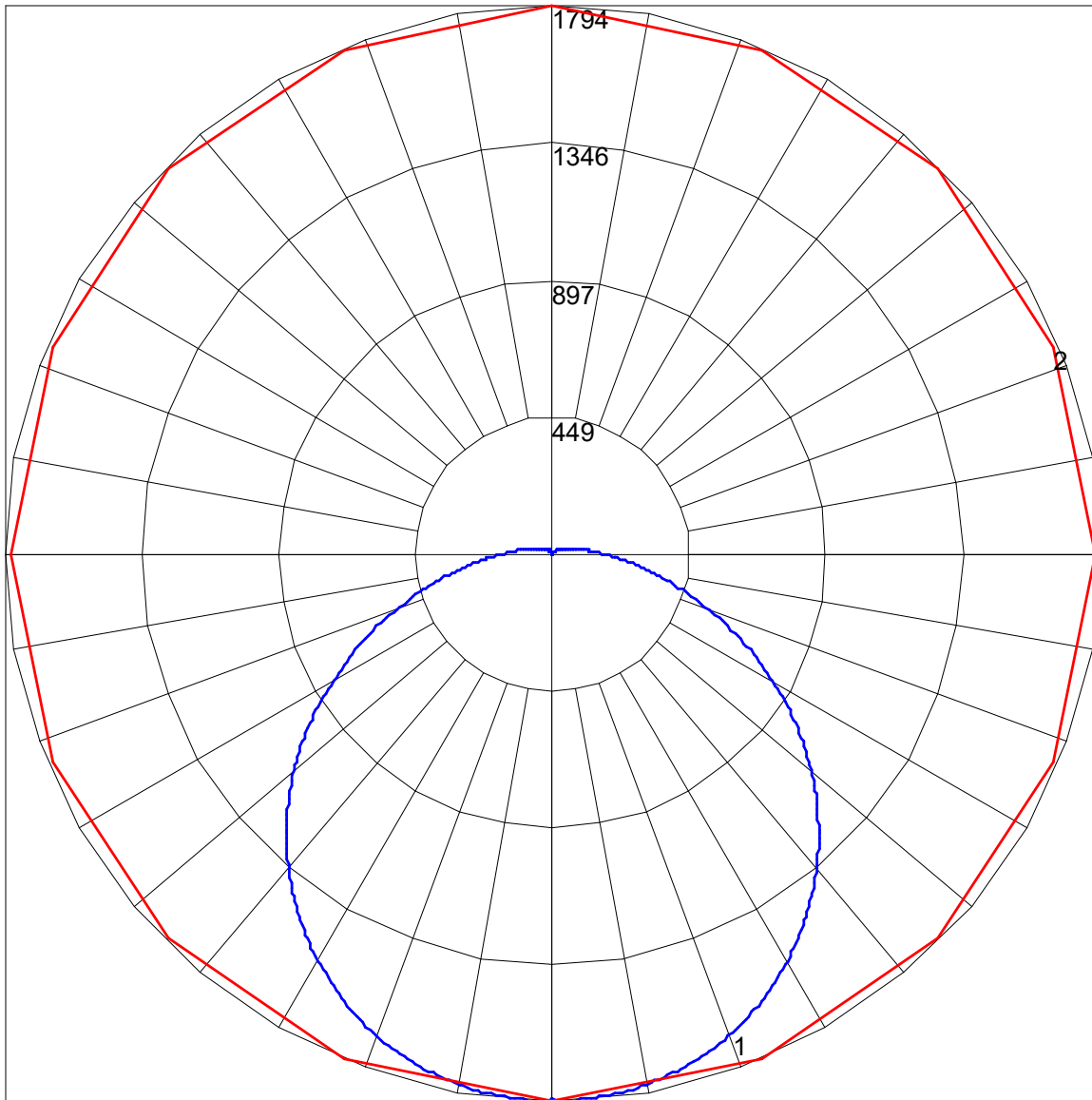
4H	2H	21.2	22.5	21.6	22.9	23.4	22.8	24.1	23.2	24.5	25.0
	3H	22.6	23.7	23.0	24.2	24.7	24.9	26.1	25.4	26.5	27.0
	4H	23.1	24.1	23.5	24.6	25.1	25.9	27.0	26.4	27.4	27.9
	6H	23.4	24.3	23.9	24.8	25.3	26.9	27.8	27.4	28.3	28.8
	8H	23.4	24.3	23.9	24.8	25.3	27.3	28.2	27.8	28.7	29.2
	12H	23.5	24.2	24.0	24.8	25.3	27.8	28.6	28.3	29.1	29.7

8H	4H	23.6	24.5	24.1	25.0	25.5	26.1	27.0	26.6	27.5	28.0
	6H	24.1	24.8	24.6	25.3	25.9	27.2	27.9	27.7	28.5	29.0
	8H	24.2	24.9	24.7	25.4	26.0	27.8	28.4	28.3	29.0	29.5
	12H	24.3	24.9	24.8	25.4	26.0	28.4	29.0	28.9	29.5	30.1

12H	4H	23.7	24.5	24.2	25.0	25.6	26.1	26.9	26.6	27.4	28.0
	6H	24.3	24.9	24.8	25.4	26.0	27.2	27.9	27.8	28.4	29.0
	8H	24.5	25.1	25.0	25.6	26.2	27.9	28.4	28.4	29.0	29.6

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1794.459 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.)