



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 940 @500MA.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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED driver set at 500mA

[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	3839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	24.2
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	14884	13288	12944
55	12922	11724	11464
65	10351	9827	9619
75	7511	7838	7536
85	4323	6324	5713

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	470.71	N.A.	12.30
0-30	1000.91	N.A.	26.10
0-40	1638.74	N.A.	42.70
0-60	2872.15	N.A.	74.80
0-80	3578.39	N.A.	93.20
0-90	3716.05	N.A.	96.80
10-90	3594.46	N.A.	93.60
20-40	1168.03	N.A.	30.40
20-50	1822.63	N.A.	47.50
40-70	1668.42	N.A.	43.50
60-80	706.24	N.A.	18.40
70-80	271.23	N.A.	7.10
80-90	137.66	N.A.	3.60
90-110	92.47	N.A.	2.40
90-120	107.95	N.A.	2.80
90-130	116.13	N.A.	3.00
90-150	122.27	N.A.	3.20
90-180	123.35	N.A.	3.20
110-180	30.87	N.A.	0.80
0-180	3839.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.59
10-20	349.12
20-30	530.20
30-40	637.83
40-50	654.60
50-60	578.81
60-70	435.01
70-80	271.23
80-90	137.66
90-100	62.41
100-110	30.06
110-120	15.47
120-130	8.18
130-140	4.19
140-150	1.95
150-160	0.84
160-170	0.24
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	19.2	20.8	19.6	21.2	21.6	21.2	22.8	21.6	23.2	23.6
	3H	20.4	21.9	20.9	22.2	22.7	23.2	24.6	23.6	25.0	25.5
	4H	20.8	22.1	21.2	22.5	23.0	24.1	25.4	24.5	25.8	26.3
	6H	21.0	22.2	21.4	22.7	23.1	24.8	26.1	25.3	26.5	27.0
	8H	21.0	22.2	21.5	22.7	23.1	25.2	26.4	25.7	26.9	27.3
	12H	21.0	22.2	21.5	22.6	23.1	25.6	26.8	26.1	27.2	27.7

UGR Viewed Endwise

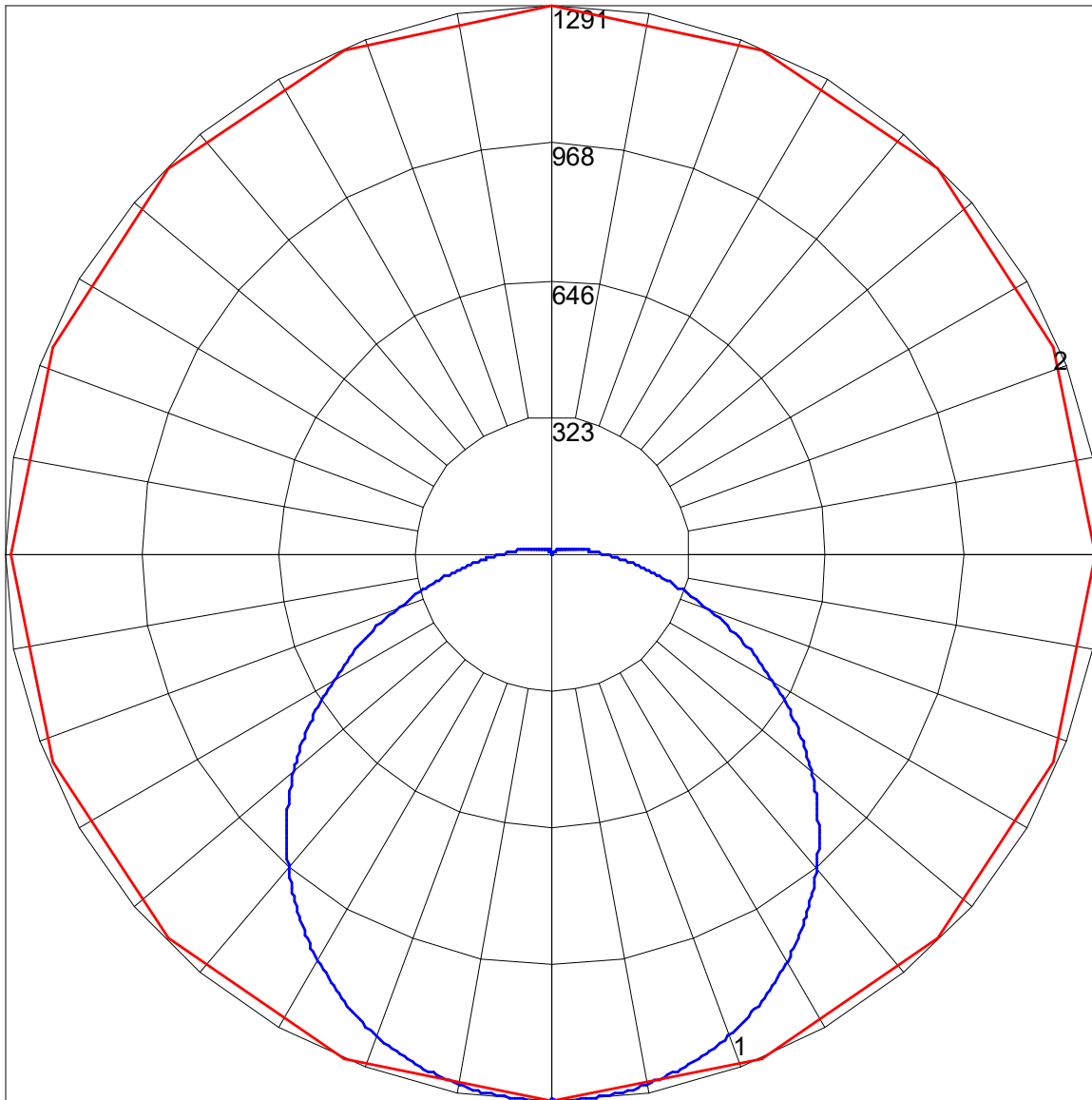
4H	2H	20.1	21.4	20.5	21.8	22.3	21.7	23.0	22.1	23.4	23.9
	3H	21.5	22.6	21.9	23.1	23.6	23.8	25.0	24.3	25.4	25.9
	4H	22.0	23.0	22.4	23.5	24.0	24.8	25.9	25.3	26.3	26.8
	6H	22.3	23.2	22.8	23.7	24.2	25.8	26.7	26.3	27.2	27.7
	8H	22.3	23.2	22.8	23.7	24.2	26.2	27.1	26.7	27.6	28.1
	12H	22.4	23.1	22.9	23.7	24.2	26.7	27.5	27.2	28.0	28.6

8H	4H	22.5	23.4	23.0	23.9	24.4	25.0	25.9	25.5	26.4	26.9
	6H	23.0	23.7	23.5	24.2	24.8	26.1	26.8	26.6	27.4	27.9
	8H	23.1	23.8	23.6	24.3	24.9	26.7	27.3	27.2	27.9	28.4
	12H	23.2	23.8	23.7	24.3	24.9	27.3	27.9	27.9	28.4	29.0

12H	4H	22.6	23.4	23.1	23.9	24.5	25.0	25.8	25.5	26.3	26.9
	6H	23.2	23.8	23.7	24.3	24.9	26.1	26.8	26.7	27.3	27.9
	8H	23.4	24.0	23.9	24.5	25.1	26.8	27.3	27.3	27.9	28.5

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1291.28 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.)