



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 940 @750MA.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 750mA

[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	5696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	37.5
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	22081	19713	19202
55	19170	17392	17007
65	15356	14578	14270
75	11142	11628	11181
85	6413	9381	8476

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	698.32	N.A.	12.30
0-30	1484.89	N.A.	26.10
0-40	2431.13	N.A.	42.70
0-60	4260.93	N.A.	74.80
0-80	5308.67	N.A.	93.20
0-90	5512.89	N.A.	96.80
10-90	5332.5	N.A.	93.60
20-40	1732.81	N.A.	30.40
20-50	2703.93	N.A.	47.50
40-70	2475.16	N.A.	43.50
60-80	1047.73	N.A.	18.40
70-80	402.38	N.A.	7.10
80-90	204.22	N.A.	3.60
90-110	137.19	N.A.	2.40
90-120	160.14	N.A.	2.80
90-130	172.28	N.A.	3.00
90-150	181.39	N.A.	3.20
90-180	182.99	N.A.	3.20
110-180	45.80	N.A.	0.80
0-180	5695.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.38
10-20	517.93
20-30	786.57
30-40	946.24
40-50	971.13
50-60	858.68
60-70	645.36
70-80	402.38
80-90	204.22
90-100	92.59
100-110	44.60
110-120	22.96
120-130	12.14
130-140	6.21
140-150	2.89
150-160	1.24
160-170	0.36
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	20.5	22.1	20.9	22.5	22.9	22.5	24.1	22.9	24.5	24.9
	3H	21.7	23.2	22.2	23.5	24.0	24.5	25.9	24.9	26.3	26.8
	4H	22.1	23.4	22.5	23.8	24.3	25.4	26.7	25.8	27.1	27.6
	6H	22.3	23.5	22.7	24.0	24.4	26.1	27.4	26.6	27.8	28.3
	8H	22.3	23.5	22.8	24.0	24.4	26.5	27.7	27.0	28.2	28.6
	12H	22.3	23.5	22.8	23.9	24.4	26.9	28.1	27.4	28.5	29.0

UGR Viewed Endwise

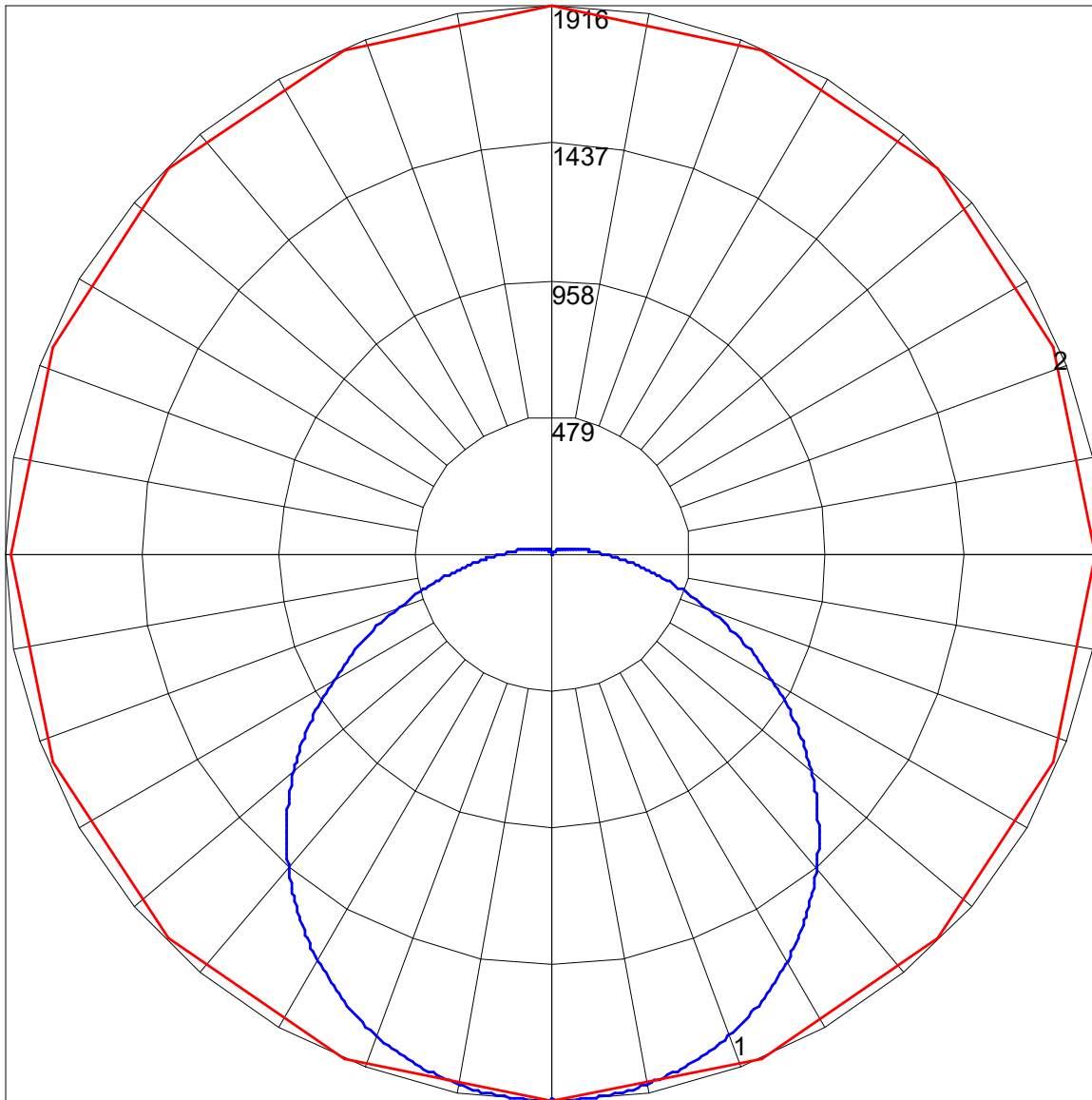
4H	2H	21.4	22.7	21.8	23.1	23.6	23.0	24.3	23.4	24.7	25.2
	3H	22.8	23.9	23.2	24.4	24.9	25.1	26.3	25.6	26.7	27.2
	4H	23.3	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.6	28.1
	6H	23.6	24.5	24.1	25.0	25.5	27.1	28.0	27.6	28.5	29.0
	8H	23.6	24.5	24.1	25.0	25.5	27.5	28.4	28.0	28.9	29.4
	12H	23.7	24.4	24.2	25.0	25.5	28.0	28.8	28.5	29.3	29.9

8H	4H	23.8	24.7	24.3	25.2	25.7	26.3	27.2	26.8	27.7	28.2
	6H	24.3	25.0	24.8	25.5	26.1	27.4	28.1	27.9	28.7	29.2
	8H	24.4	25.1	24.9	25.6	26.2	28.0	28.6	28.5	29.2	29.7
	12H	24.5	25.1	25.0	25.6	26.2	28.6	29.2	29.1	29.7	30.3

12H	4H	23.9	24.7	24.4	25.2	25.8	26.3	27.1	26.8	27.6	28.2
	6H	24.5	25.1	25.0	25.6	26.2	27.4	28.1	28.0	28.6	29.2
	8H	24.7	25.3	25.2	25.8	26.4	28.1	28.6	28.6	29.2	29.8

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 1915.658 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.)