



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 930 @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 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3000K

[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	5540
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	21478	19175	18678
55	18647	16918	16542
65	14937	14180	13880
75	10838	11311	10875
85	6238	9125	8245

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	679.26	N.A.	12.30
0-30	1444.35	N.A.	26.10
0-40	2364.76	N.A.	42.70
0-60	4144.61	N.A.	74.80
0-80	5163.74	N.A.	93.20
0-90	5362.39	N.A.	96.80
10-90	5186.93	N.A.	93.60
20-40	1685.5	N.A.	30.40
20-50	2630.12	N.A.	47.50
40-70	2407.59	N.A.	43.50
60-80	1019.13	N.A.	18.40
70-80	391.39	N.A.	7.10
80-90	198.64	N.A.	3.60
90-110	133.44	N.A.	2.40
90-120	155.77	N.A.	2.80
90-130	167.58	N.A.	3.00
90-150	176.44	N.A.	3.20
90-180	177.99	N.A.	3.20
110-180	44.55	N.A.	0.80
0-180	5540.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.46
10-20	503.80
20-30	765.09
30-40	920.41
40-50	944.62
50-60	835.24
60-70	627.74
70-80	391.39
80-90	198.64
90-100	90.07
100-110	43.38
110-120	22.33
120-130	11.81
130-140	6.04
140-150	2.81
150-160	1.21
160-170	0.35
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	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	28.0	27.4	28.5	29.0

UGR Viewed Endwise

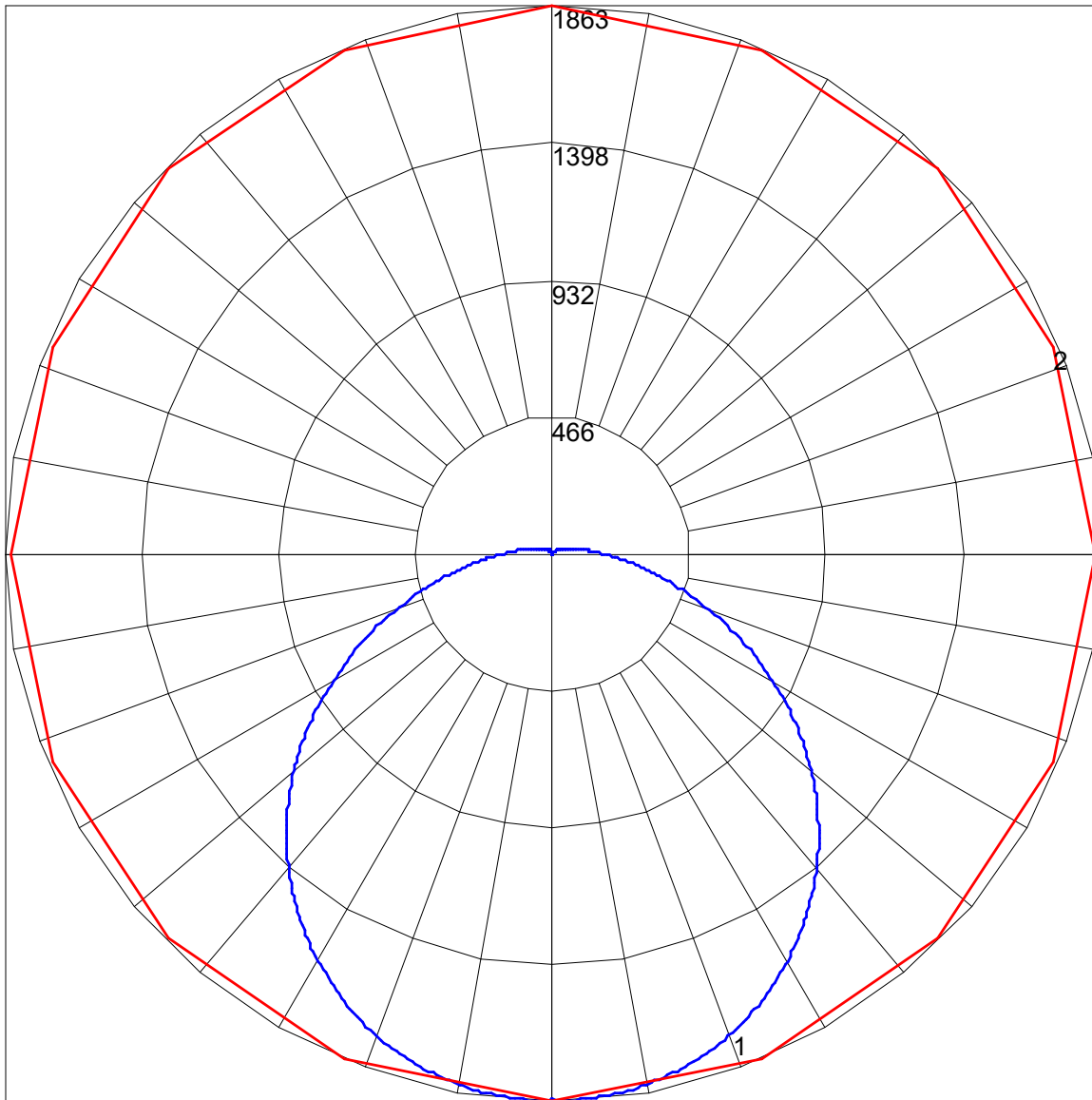
4H	2H	21.4	22.7	21.8	23.1	23.6	23.0	24.3	23.4	24.7	25.2
	3H	22.8	23.9	23.2	24.4	24.9	25.1	26.3	25.6	26.7	27.2
	4H	23.3	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.6	28.1
	6H	23.6	24.5	24.1	25.0	25.5	27.1	28.0	27.6	28.5	29.0
	8H	23.6	24.5	24.1	25.0	25.5	27.5	28.4	28.0	28.9	29.4
	12H	23.7	24.4	24.2	25.0	25.5	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 = 1863.361 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.)