



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 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 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 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	5756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	36.3
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	11278	10035	9729
55	9825	8867	8616
65	7914	7448	7230
75	5812	5961	5665
85	3527	4842	4294

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	705.66	N.A.	12.30
0-30	1500.51	N.A.	26.10
0-40	2456.7	N.A.	42.70
0-60	4305.75	N.A.	74.80
0-80	5364.51	N.A.	93.20
0-90	5570.88	N.A.	96.80
10-90	5388.6	N.A.	93.60
20-40	1751.03	N.A.	30.40
20-50	2732.38	N.A.	47.50
40-70	2501.2	N.A.	43.50
60-80	1058.76	N.A.	18.40
70-80	406.61	N.A.	7.10
80-90	206.37	N.A.	3.60
90-110	138.63	N.A.	2.40
90-120	161.83	N.A.	2.80
90-130	174.10	N.A.	3.00
90-150	183.30	N.A.	3.20
90-180	184.91	N.A.	3.20
110-180	46.28	N.A.	0.80
0-180	5755.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.28
10-20	523.38
20-30	794.84
30-40	956.19
40-50	981.34
50-60	867.71
60-70	652.15
70-80	406.61
80-90	206.37
90-100	93.57
100-110	45.06
110-120	23.20
120-130	12.27
130-140	6.28
140-150	2.92
150-160	1.25
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	18.2	19.8	18.6	20.2	20.6	20.3	21.9	20.7	22.2	22.6
	3H	19.4	20.9	19.9	21.3	21.7	22.3	23.7	22.7	24.1	24.5
	4H	19.8	21.1	20.2	21.5	22.0	23.1	24.5	23.6	24.9	25.3
	6H	20.0	21.2	20.4	21.7	22.1	23.9	25.2	24.4	25.6	26.1
	8H	20.0	21.2	20.5	21.7	22.1	24.3	25.5	24.8	25.9	26.4
	12H	20.0	21.2	20.5	21.6	22.1	24.7	25.8	25.2	26.3	26.8

UGR Viewed Endwise

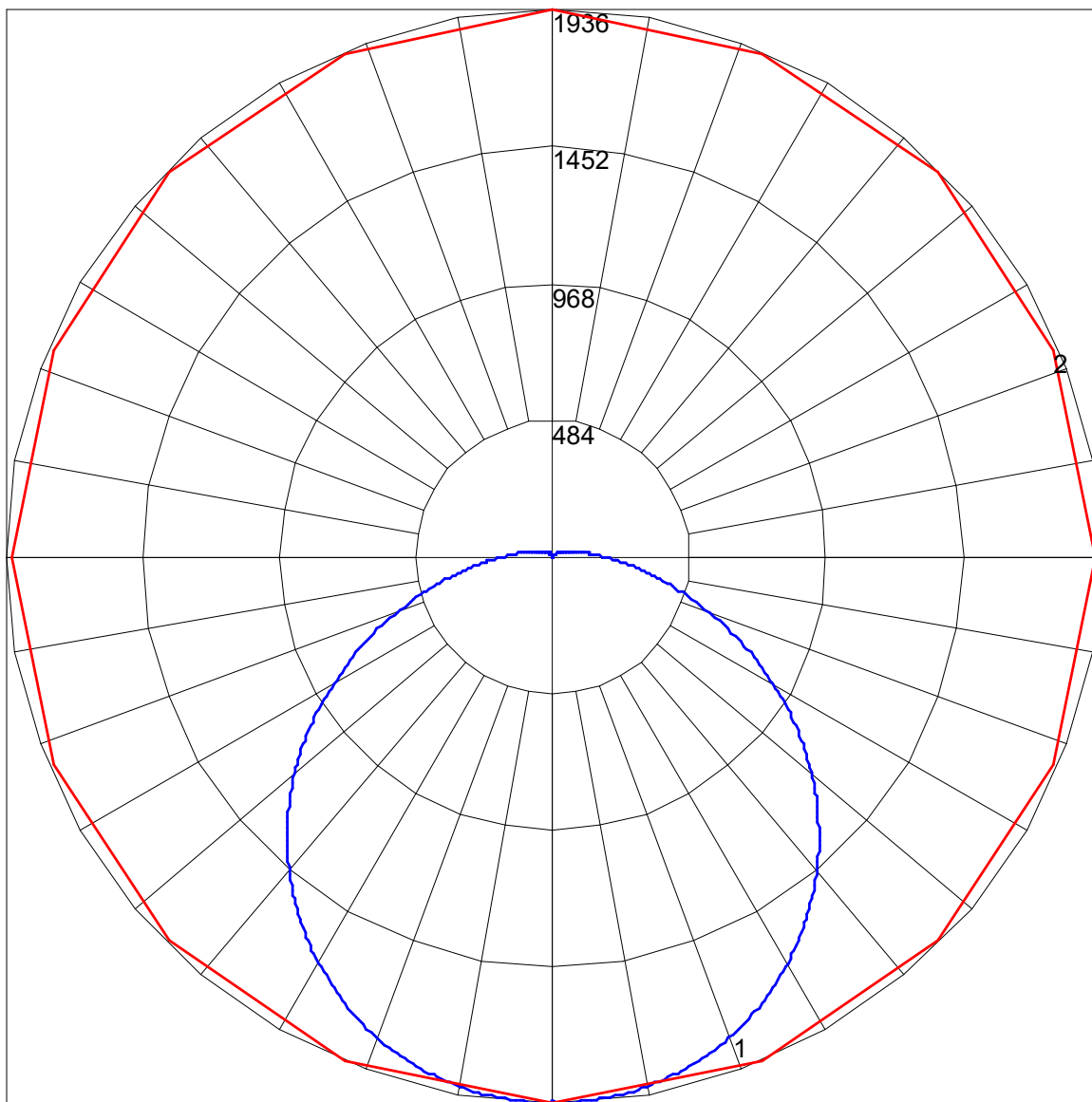
4H	2H	19.1	20.4	19.5	20.8	21.3	20.7	22.0	21.1	22.5	22.9
	3H	20.5	21.7	21.0	22.1	22.6	22.9	24.0	23.3	24.5	25.0
	4H	21.0	22.0	21.5	22.5	23.0	23.9	24.9	24.4	25.4	25.9
	6H	21.3	22.2	21.8	22.7	23.2	24.8	25.8	25.3	26.3	26.8
	8H	21.3	22.2	21.8	22.7	23.2	25.3	26.2	25.8	26.7	27.2
	12H	21.4	22.2	21.9	22.7	23.2	25.8	26.6	26.3	27.1	27.7

8H	4H	21.5	22.4	22.0	22.9	23.4	24.1	24.9	24.6	25.4	26.0
	6H	22.0	22.7	22.5	23.3	23.8	25.2	25.9	25.7	26.4	27.0
	8H	22.1	22.8	22.7	23.3	23.9	25.7	26.4	26.3	27.0	27.5
	12H	22.2	22.8	22.8	23.3	24.0	26.4	27.0	26.9	27.5	28.1

12H	4H	21.6	22.4	22.2	23.0	23.5	24.1	24.8	24.6	25.4	25.9
	6H	22.2	22.8	22.7	23.4	24.0	25.2	25.9	25.8	26.4	27.0
	8H	22.4	23.0	23.0	23.5	24.2	25.8	26.4	26.4	27.0	27.6

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1935.81 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.)