



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL75 UV FR 940 @1100MA.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 SEL75 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-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1100mA

[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	8438
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	53.5
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)	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	16533	14711	14263
55	14403	13000	12632
65	11602	10919	10599
75	8521	8739	8304
85	5170	7099	6296

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1034.53	N.A.	12.30
0-30	2199.8	N.A.	26.10
0-40	3601.62	N.A.	42.70
0-60	6312.42	N.A.	74.80
0-80	7864.6	N.A.	93.20
0-90	8167.14	N.A.	96.80
10-90	7899.91	N.A.	93.60
20-40	2567.09	N.A.	30.40
20-50	4005.78	N.A.	47.50
40-70	3666.87	N.A.	43.50
60-80	1552.18	N.A.	18.40
70-80	596.11	N.A.	7.10
80-90	302.54	N.A.	3.60
90-110	203.24	N.A.	2.40
90-120	237.25	N.A.	2.80
90-130	255.23	N.A.	3.00
90-150	268.72	N.A.	3.20
90-180	271.09	N.A.	3.20
110-180	67.85	N.A.	0.80
0-180	8438.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	267.23
10-20	767.30
20-30	1165.27
30-40	1401.82
40-50	1438.69
50-60	1272.1
60-70	956.07
70-80	596.11
80-90	302.54
90-100	137.17
100-110	66.07
110-120	34.01
120-130	17.98
130-140	9.20
140-150	4.29
150-160	1.84
160-170	0.53
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

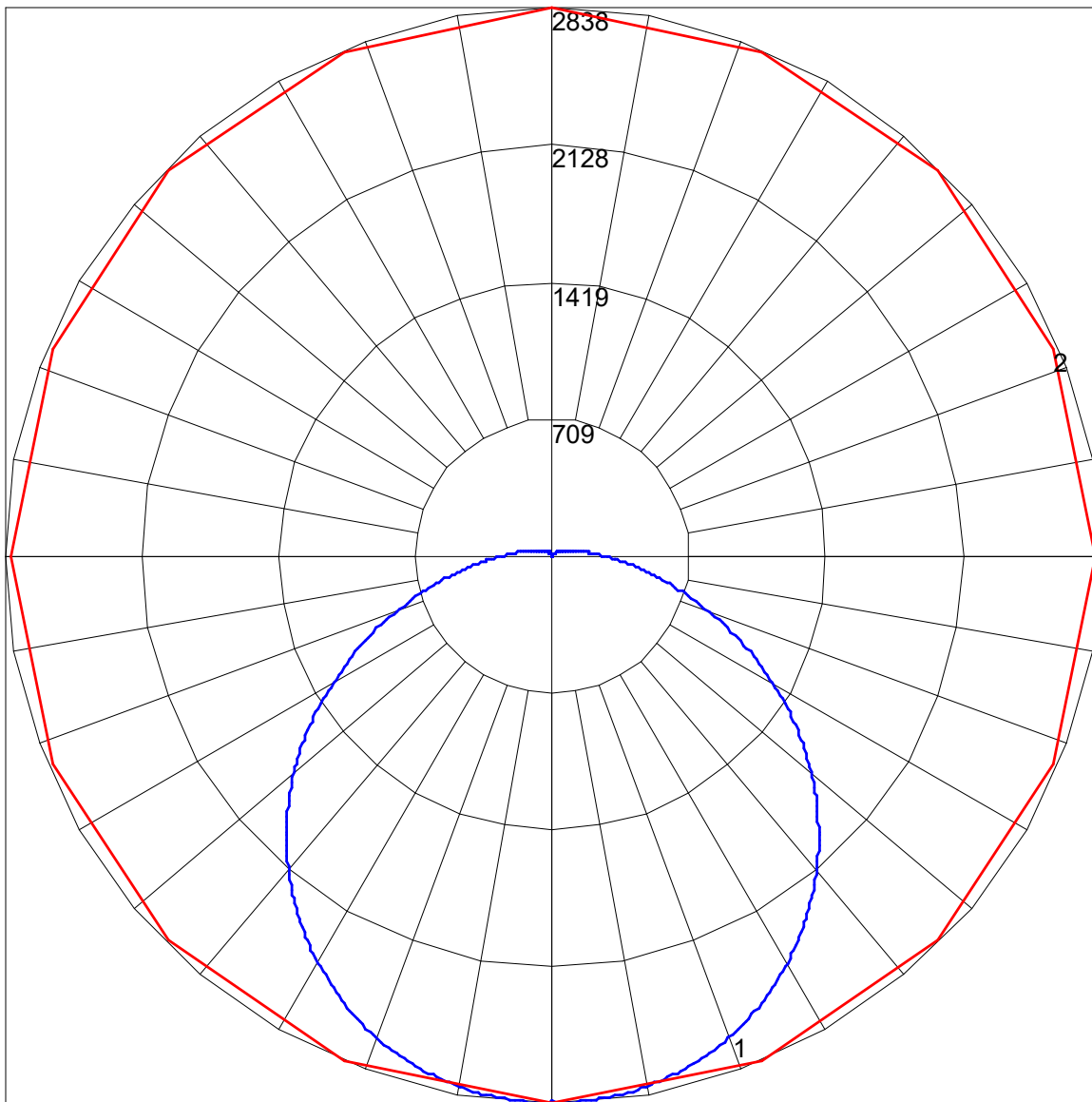
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.1	19.9	21.5	21.9	21.6	23.2	22.0	23.5	23.9
	3H	20.7	22.2	21.2	22.6	23.0	23.6	25.0	24.0	25.4	25.8
	4H	21.1	22.4	21.5	22.8	23.3	24.4	25.8	24.9	26.2	26.6
	6H	21.3	22.5	21.7	23.0	23.4	25.2	26.5	25.7	26.9	27.4
	8H	21.3	22.5	21.8	23.0	23.4	25.6	26.8	26.1	27.2	27.7
	12H	21.3	22.5	21.8	22.9	23.4	26.0	27.1	26.5	27.6	28.1
4H	2H	20.4	21.7	20.8	22.1	22.6	22.0	23.3	22.4	23.8	24.2
	3H	21.8	23.0	22.3	23.4	23.9	24.2	25.3	24.6	25.8	26.3
	4H	22.3	23.3	22.8	23.8	24.3	25.2	26.2	25.7	26.7	27.2
	6H	22.6	23.5	23.1	24.0	24.5	26.1	27.1	26.6	27.6	28.1
	8H	22.6	23.5	23.1	24.0	24.5	26.6	27.5	27.1	28.0	28.5
	12H	22.7	23.5	23.2	24.0	24.5	27.1	27.9	27.6	28.4	29.0
8H	4H	22.8	23.7	23.3	24.2	24.7	25.4	26.2	25.9	26.7	27.3
	6H	23.3	24.0	23.8	24.6	25.1	26.5	27.2	27.0	27.7	28.3
	8H	23.4	24.1	24.0	24.6	25.2	27.0	27.7	27.6	28.3	28.8
	12H	23.5	24.1	24.1	24.6	25.3	27.7	28.3	28.2	28.8	29.4
12H	4H	22.9	23.7	23.5	24.3	24.8	25.4	26.1	25.9	26.7	27.2
	6H	23.5	24.1	24.0	24.7	25.3	26.5	27.2	27.1	27.7	28.3
	8H	23.7	24.3	24.3	24.8	25.5	27.1	27.7	27.7	28.3	28.9

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 2837.978 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.)