

IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 SEL25 UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 4 SEL25 UV FA 940

[LUMINAIRE] Surface or pendant mounted, formed white painted steel housing,
[MORE] formed white painted steel reflector, frosted plastic enclosure with interior

[MORE] linear prisms

[LAMPCAT] Two CL116-4000K-R90-A5 CREE G CLASS PRO 9 48UP LED boards with 48 LEDs each.

[BALLAST] One Keystone Technologies KTLD-25-UV-PS450-54-VDIM-LP2 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

CHARACTERISTICS

Lumens Per Lamp	3546.543 (1 lamp)
Total Lamp Lumens	3546.543
Luminaire Lumens	3547
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	22.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.44 ft
Luminous Height	0.12 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5481	5131	5274
55	4898	4613	4889
65	4213	4046	4493
75	3291	3428	4083
85	1643	2820	3750

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	405.21	11.40	11.40
0-30	855.23	24.10	24.10
0-40	1390.35	39.20	39.20
0-60	2435.69	68.70	68.70
0-80	3098.8	87.40	87.40
0-90	3242.72	91.40	91.40
10-90	3137.47	88.50	88.50
20-40	985.14	27.80	27.80
20-50	1533.61	43.20	43.20
40-70	1441.13	40.60	40.60
60-80	663.11	18.70	18.70
70-80	267.32	7.50	7.50
80-90	143.92	4.10	4.10
90-110	144.85	4.10	4.10
90-120	196.45	5.50	5.50
90-130	237.27	6.70	6.70
90-150	286.84	8.10	8.10
90-180	304.01	8.60	8.60
110-180	159.15	4.50	4.50
0-180	3546.72	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.24
10-20	299.97
20-30	450.02
30-40	535.12
40-50	548.48
50-60	496.87
60-70	395.78
70-80	267.32
80-90	143.92
90-100	81.04
100-110	63.81
110-120	51.60
120-130	40.82
130-140	30.01
140-150	19.55
150-160	10.89
160-170	4.96
170-180	1.32

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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	101	96	92	102	97	93	89	92	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	62	58	54	51
4	80	68	59	52	77	66	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	44	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	40	34	46	38	33	43	37	32	41	36	31	29
8	58	45	36	30	56	44	36	30	42	35	29	40	33	29	38	32	28	26
9	55	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	25	49	37	30	24	36	29	24	34	28	23	33	27	23	21

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UGR TABLE - CORRECTED

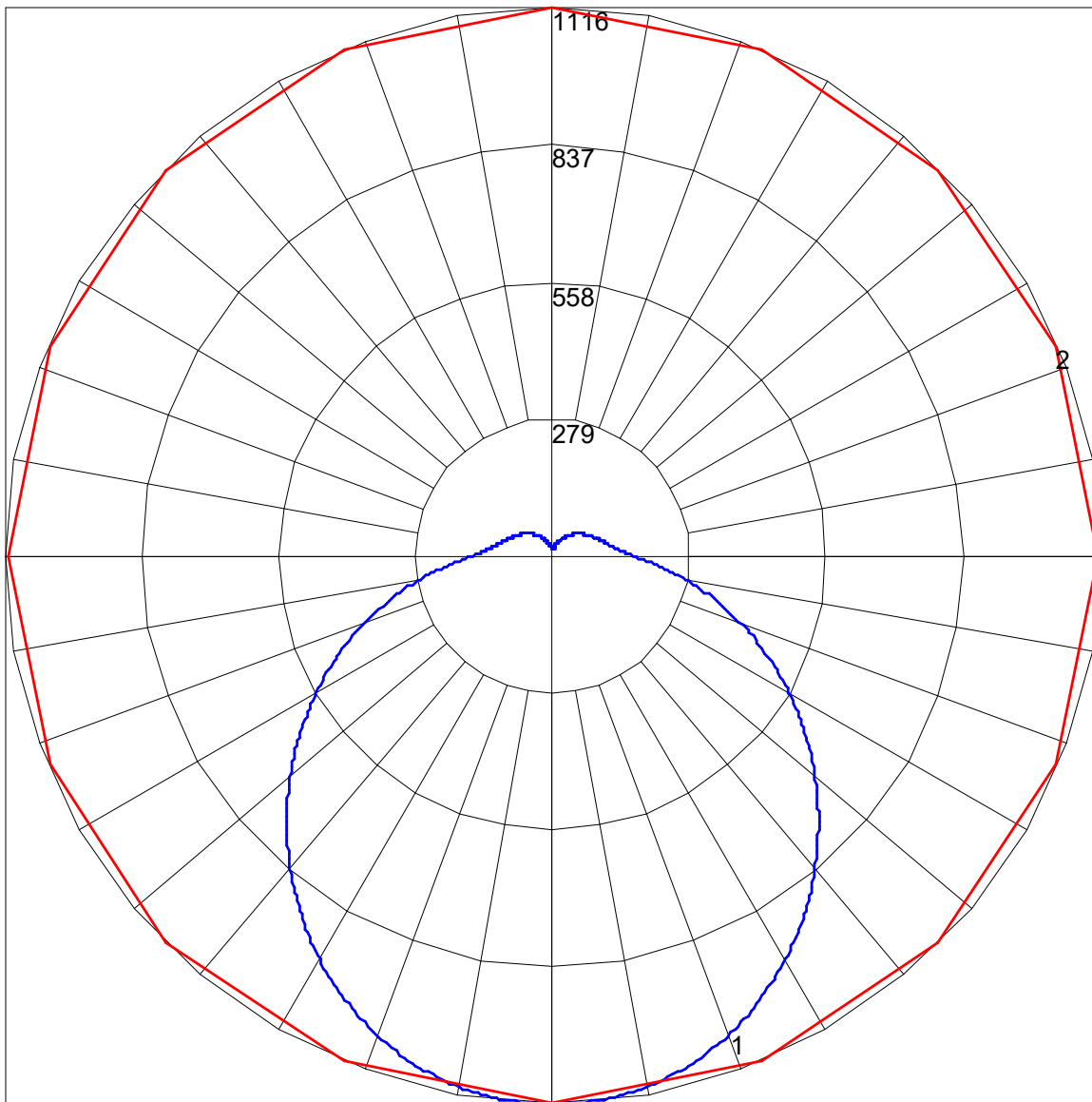
Reflectances

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	15.5	17.0	16.0	17.5	18.0	17.8	19.2	18.3	19.7	20.3
	3H	16.9	18.2	17.4	18.8	19.3	20.1	21.4	20.6	21.9	22.5
	4H	17.4	18.6	17.9	19.1	19.7	21.1	22.4	21.6	22.9	23.5
	6H	17.6	18.8	18.2	19.3	19.9	22.2	23.3	22.7	23.9	24.5
	8H	17.7	18.8	18.2	19.3	19.9	22.7	23.8	23.2	24.3	25.0
	12H	17.7	18.7	18.2	19.3	19.9	23.2	24.3	23.8	24.8	25.5
4H	2H	16.4	17.6	16.9	18.2	18.7	18.2	19.4	18.7	19.9	20.5
	3H	18.0	19.1	18.6	19.6	20.3	20.7	21.8	21.2	22.3	22.9
	4H	18.6	19.5	19.1	20.1	20.7	21.9	22.9	22.5	23.4	24.1
	6H	18.9	19.8	19.5	20.4	21.0	23.1	24.0	23.7	24.6	25.2
	8H	19.0	19.8	19.6	20.4	21.1	23.7	24.6	24.3	25.1	25.8
	12H	19.0	19.8	19.7	20.4	21.1	24.4	25.1	25.0	25.8	26.4
8H	4H	19.2	20.0	19.8	20.6	21.2	22.1	22.9	22.7	23.5	24.1
	6H	19.7	20.4	20.3	21.0	21.7	23.5	24.2	24.1	24.8	25.5
	8H	19.8	20.5	20.5	21.1	21.8	24.2	24.8	24.9	25.5	26.2
	12H	19.9	20.5	20.6	21.1	21.9	25.1	25.6	25.7	26.2	27.0
12H	4H	19.3	20.1	20.0	20.7	21.4	22.1	22.8	22.7	23.4	24.1
	6H	19.9	20.6	20.6	21.2	21.9	23.5	24.1	24.2	24.7	25.5
	8H	20.2	20.7	20.8	21.3	22.1	24.3	24.8	24.9	25.5	26.2

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1115.679 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)