

IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 SEL75 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 SEL75 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-A6 CREE G CLASS PRO 9 64UP LED boards with 64 LEDs each.

[BALLAST] One Keystone Technologies KTLD-75-UV-PS1400-54-VDIM-LM2 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

CHARACTERISTICS

Lumens Per Lamp	10649.65 (1 lamp)
Total Lamp Lumens	10649.65
Luminaire Lumens	10650
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	70.8
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	16457	15406	15836
55	14708	13851	14682
65	12651	12148	13493
75	9883	10294	12262
85	4933	8467	11262

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1216.78	11.40	11.40
0-30	2568.11	24.10	24.10
0-40	4174.97	39.20	39.20
0-60	7313.97	68.70	68.70
0-80	9305.16	87.40	87.40
0-90	9737.32	91.40	91.40
10-90	9421.29	88.50	88.50
20-40	2958.19	27.80	27.80
20-50	4605.17	43.20	43.20
40-70	4327.46	40.60	40.60
60-80	1991.19	18.70	18.70
70-80	802.73	7.50	7.50
80-90	432.16	4.10	4.10
90-110	434.96	4.10	4.10
90-120	589.90	5.50	5.50
90-130	712.49	6.70	6.70
90-150	861.32	8.10	8.10
90-180	912.88	8.60	8.60
110-180	477.91	4.50	4.50
0-180	10650.19	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	316.03
10-20	900.75
20-30	1351.33
30-40	1606.86
40-50	1646.98
50-60	1492.01
60-70	1188.46
70-80	802.73
80-90	432.16
90-100	243.34
100-110	191.62
110-120	154.93
120-130	122.59
130-140	90.13
140-150	58.70
150-160	32.71
160-170	14.90
170-180	3.95

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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

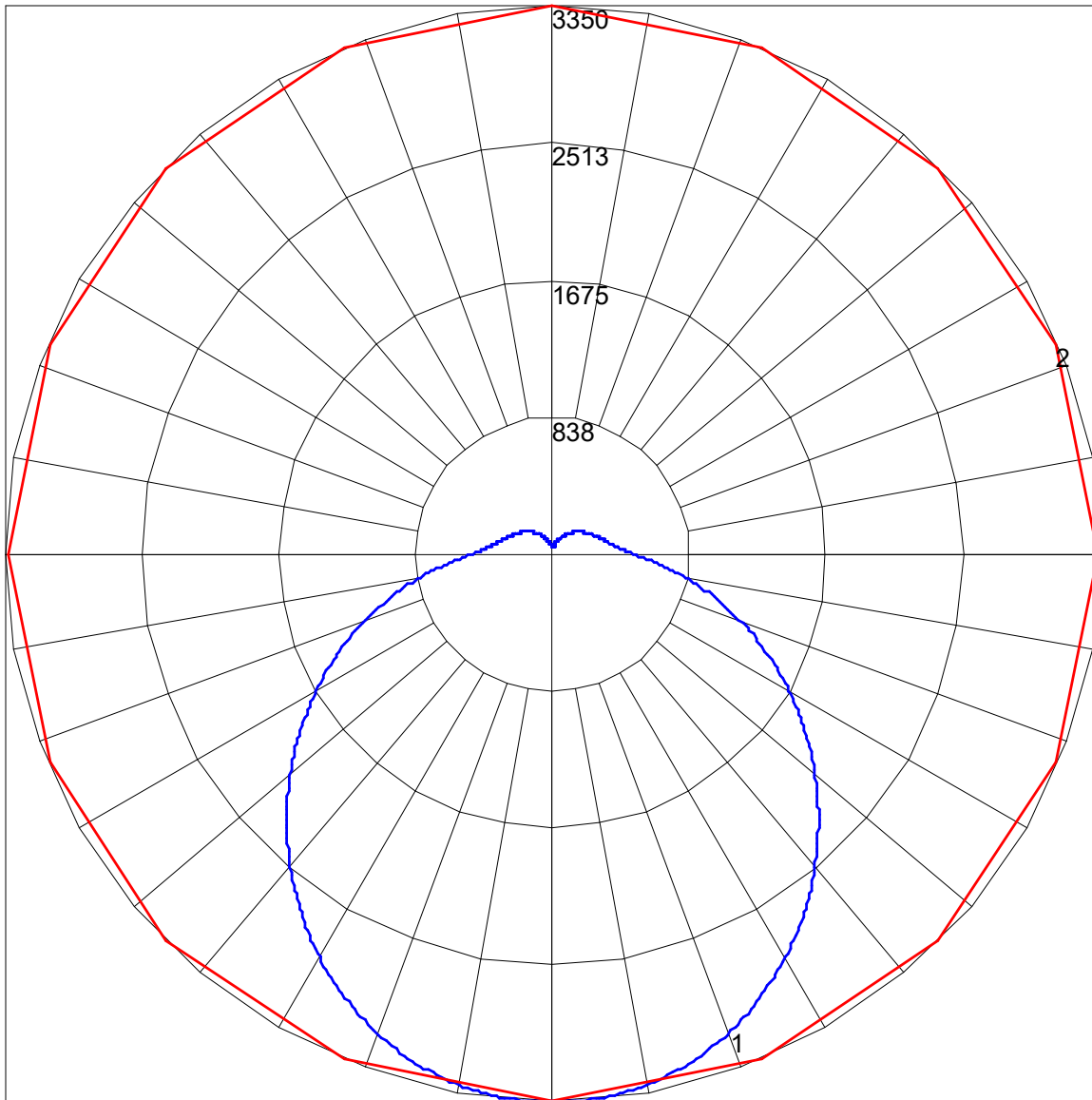
X=2H	Y=2H	19.3	20.8	19.8	21.3	21.8	21.6	23.0	22.1	23.5	24.1
	3H	20.7	22.0	21.2	22.6	23.1	23.9	25.2	24.4	25.7	26.3
	4H	21.2	22.4	21.7	22.9	23.5	24.9	26.2	25.4	26.7	27.3
	6H	21.4	22.6	22.0	23.1	23.7	26.0	27.1	26.5	27.7	28.3
	8H	21.5	22.6	22.0	23.1	23.7	26.5	27.6	27.0	28.1	28.8
	12H	21.5	22.5	22.0	23.1	23.7	27.0	28.1	27.6	28.6	29.3

UGR Viewed Endwise

4H	2H	20.2	21.4	20.7	22.0	22.5	22.0	23.2	22.5	23.7	24.3
	3H	21.8	22.9	22.4	23.4	24.1	24.5	25.6	25.0	26.1	26.7
	4H	22.4	23.3	22.9	23.9	24.5	25.7	26.7	26.3	27.2	27.9
	6H	22.7	23.6	23.3	24.2	24.8	26.9	27.8	27.5	28.4	29.0
	8H	22.8	23.6	23.4	24.2	24.9	27.5	28.4	28.1	28.9	29.6
	12H	22.8	23.6	23.5	24.2	24.9	28.2	28.9	28.8	29.6	30.2
8H	4H	23.0	23.8	23.6	24.4	25.0	25.9	26.7	26.5	27.3	27.9
	6H	23.5	24.2	24.1	24.8	25.5	27.3	28.0	27.9	28.6	29.3
	8H	23.6	24.3	24.3	24.9	25.6	28.0	28.6	28.7	29.3	30.0
	12H	23.7	24.3	24.4	24.9	25.7	28.9	29.4	29.5	30.0	30.8
12H	4H	23.1	23.9	23.8	24.5	25.2	25.9	26.6	26.5	27.2	27.9
	6H	23.7	24.4	24.4	25.0	25.7	27.3	27.9	28.0	28.5	29.3
	8H	24.0	24.5	24.6	25.1	25.9	28.1	28.6	28.7	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 3350.191 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.)