



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SEL100 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 8 SEL100 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] Four CL116-4000K-R90-A5 CREE G CLASS PRO 9 48UP LED boards with 48 LEDs each.

[BALLAST] One Keystone Technologies KTLD-100-UV-PS1800-54-VDIM-LM2 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

### CHARACTERISTICS

Lumens Per Lamp	13986.5 (1 lamp)
Total Lamp Lumens	13986.5
Luminaire Lumens	13987
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	90
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)	8.00 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	10960	10203	10399
55	9852	9199	9641
65	8556	8100	8860
75	6820	6908	8052
85	3696	5759	7395

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1598.03	11.40	11.40
0-30	3372.77	24.10	24.10
0-40	5483.11	39.20	39.20
0-60	9605.65	68.70	68.70
0-80	12220.74	87.40	87.40
0-90	12788.3	91.40	91.40
10-90	12373.25	88.50	88.50
20-40	3885.08	27.80	27.80
20-50	6048.11	43.20	43.20
40-70	5683.38	40.60	40.60
60-80	2615.09	18.70	18.70
70-80	1054.25	7.50	7.50
80-90	567.57	4.10	4.10
90-110	571.25	4.10	4.10
90-120	774.73	5.50	5.50
90-130	935.73	6.70	6.70
90-150	1131.19	8.10	8.10
90-180	1198.91	8.60	8.60
110-180	627.66	4.50	4.50
0-180	13987.21	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	415.05
10-20	1182.98
20-30	1774.74
30-40	2110.34
40-50	2163.03
50-60	1959.51
60-70	1560.84
70-80	1054.25
80-90	567.57
90-100	319.59
100-110	251.66
110-120	203.48
120-130	161.00
130-140	118.37
140-150	77.09
150-160	42.96
160-170	19.57
170-180	5.19

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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

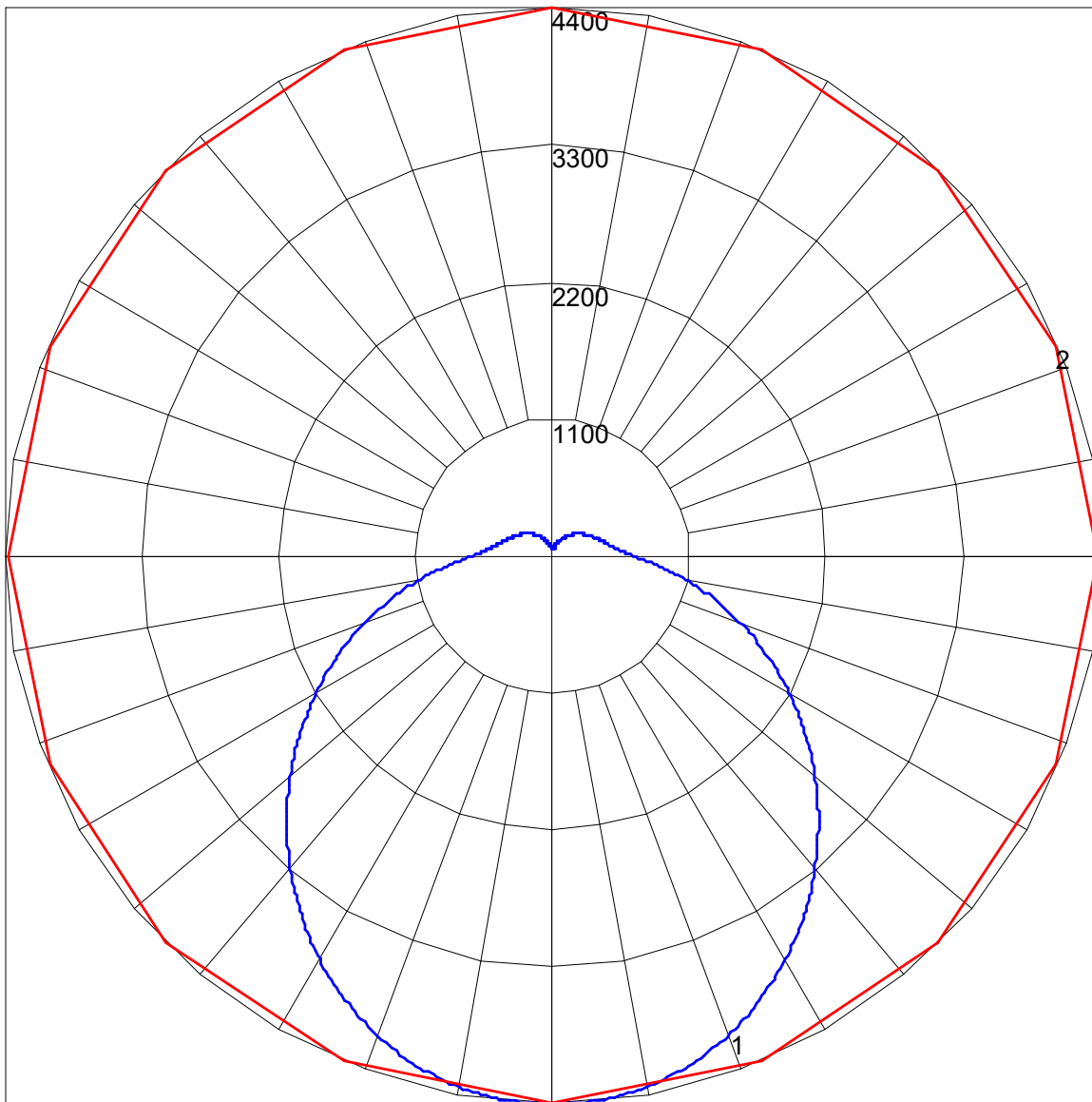
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**UGR TABLE - CORRECTED**

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	17.9	19.4	18.4	19.9	20.4	20.2	21.7	20.7	22.2	22.7
	3H	19.3	20.7	19.9	21.2	21.7	22.6	23.9	23.1	24.4	25.0
	4H	19.8	21.0	20.3	21.5	22.1	23.6	24.9	24.1	25.4	26.0
	6H	20.0	21.2	20.6	21.7	22.3	24.7	25.9	25.2	26.4	27.0
	8H	20.1	21.2	20.6	21.7	22.4	25.2	26.3	25.8	26.9	27.5
	12H	20.1	21.2	20.6	21.7	22.3	25.8	26.9	26.4	27.4	28.0
4H	2H	18.8	20.1	19.3	20.6	21.2	20.6	21.9	21.2	22.4	23.0
	3H	20.4	21.5	21.0	22.1	22.7	23.2	24.2	23.7	24.8	25.4
	4H	21.0	22.0	21.5	22.5	23.2	24.4	25.4	25.0	25.9	26.6
	6H	21.3	22.2	21.9	22.8	23.5	25.7	26.5	26.2	27.1	27.8
	8H	21.4	22.2	22.0	22.8	23.5	26.3	27.1	26.9	27.7	28.4
	12H	21.5	22.2	22.1	22.8	23.5	27.0	27.7	27.6	28.3	29.0
8H	4H	21.6	22.4	22.2	23.0	23.7	24.6	25.4	25.2	26.0	26.6
	6H	22.1	22.8	22.8	23.4	24.1	26.0	26.7	26.6	27.3	28.0
	8H	22.3	22.9	22.9	23.5	24.2	26.8	27.4	27.4	28.0	28.7
	12H	22.4	22.9	23.0	23.5	24.3	27.6	28.2	28.3	28.8	29.5
12H	4H	21.8	22.5	22.4	23.1	23.8	24.6	25.3	25.2	25.9	26.6
	6H	22.4	23.0	23.0	23.6	24.3	26.0	26.6	26.7	27.2	28.0
	8H	22.6	23.1	23.2	23.8	24.5	26.8	27.4	27.5	28.0	28.8

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 4399.905 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.)