



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 SEL45 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 SEL45 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-45-UV-PS850-54-VDIM-LM1 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

### CHARACTERISTICS

Lumens Per Lamp	6545.915 (1 lamp)
Total Lamp Lumens	6545.915
Luminaire Lumens	6546
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	42.8
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	10116	9470	9734
55	9040	8514	9024
65	7776	7467	8294
75	6074	6327	7537
85	3032	5204	6922

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	747.91	11.40	11.40
0-30	1578.51	24.10	24.10
0-40	2566.19	39.20	39.20
0-60	4495.6	68.70	68.70
0-80	5719.51	87.40	87.40
0-90	5985.14	91.40	91.40
10-90	5790.89	88.50	88.50
20-40	1818.28	27.80	27.80
20-50	2830.62	43.20	43.20
40-70	2659.92	40.60	40.60
60-80	1223.91	18.70	18.70
70-80	493.40	7.50	7.50
80-90	265.63	4.10	4.10
90-110	267.36	4.10	4.10
90-120	362.59	5.50	5.50
90-130	437.94	6.70	6.70
90-150	529.42	8.10	8.10
90-180	561.11	8.60	8.60
110-180	293.75	4.50	4.50
0-180	6546.25	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	194.25
10-20	553.65
20-30	830.61
30-40	987.67
40-50	1012.33
50-60	917.08
60-70	730.50
70-80	493.40
80-90	265.63
90-100	149.57
100-110	117.78
110-120	95.23
120-130	75.35
130-140	55.40
140-150	36.08
150-160	20.10
160-170	9.16
170-180	2.43

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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	17.6	19.1	18.1	19.6	20.1	19.9	21.3	20.4	21.8	22.4
	3H	19.0	20.3	19.5	20.9	21.4	22.2	23.5	22.7	24.0	24.6
	4H	19.5	20.7	20.0	21.2	21.8	23.2	24.5	23.7	25.0	25.6
	6H	19.7	20.9	20.3	21.4	22.0	24.3	25.4	24.8	26.0	26.6
	8H	19.8	20.9	20.3	21.4	22.0	24.8	25.9	25.3	26.4	27.1
	12H	19.8	20.8	20.3	21.4	22.0	25.3	26.4	25.9	26.9	27.6

UGR Viewed Endwise

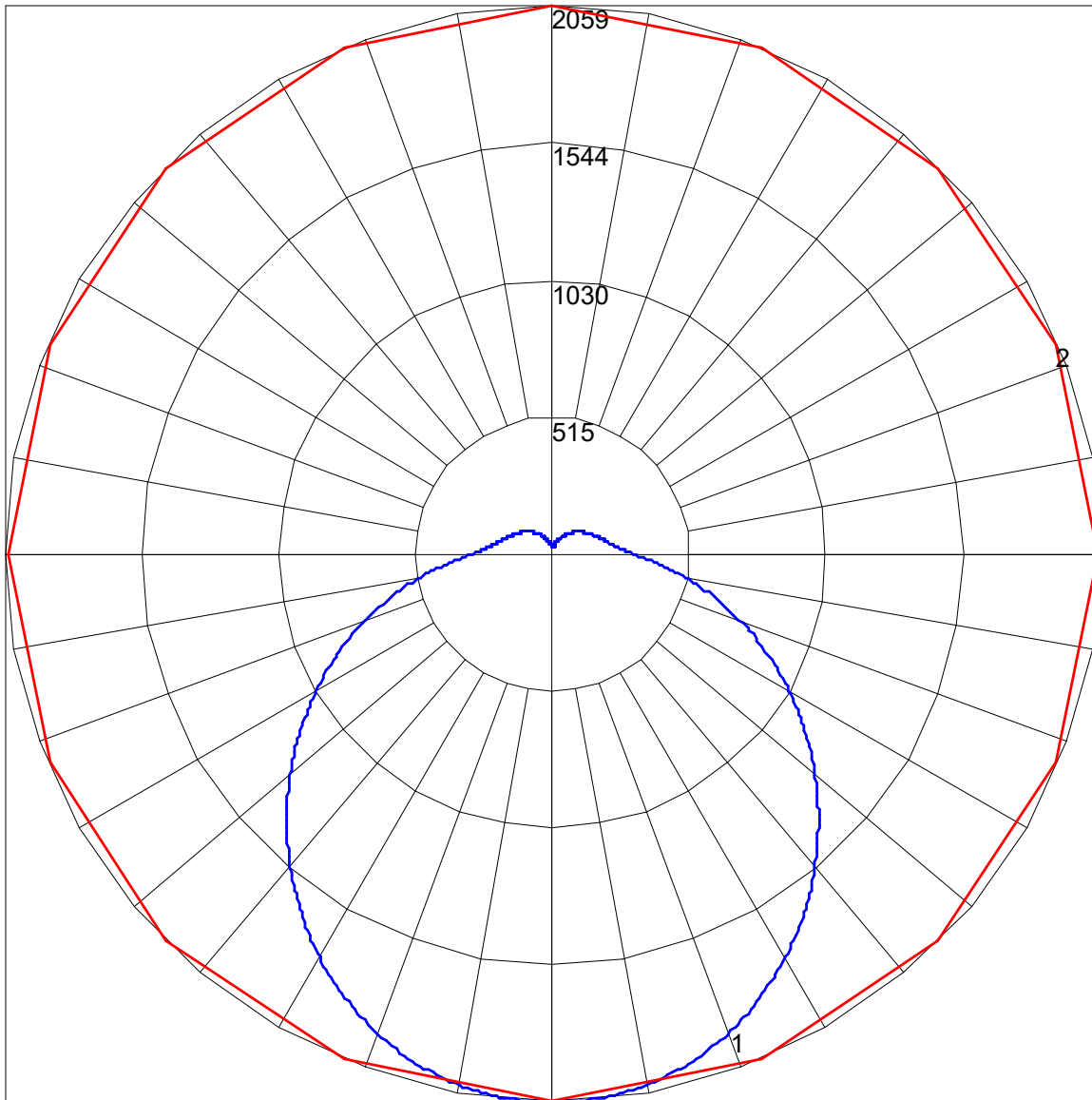
4H	2H	18.5	19.7	19.0	20.3	20.8	20.3	21.5	20.8	22.0	22.6
	3H	20.1	21.2	20.7	21.7	22.4	22.8	23.9	23.3	24.4	25.0
	4H	20.7	21.6	21.2	22.2	22.8	24.0	25.0	24.6	25.5	26.2
	6H	21.0	21.9	21.6	22.5	23.1	25.2	26.1	25.8	26.7	27.3
	8H	21.1	21.9	21.7	22.5	23.2	25.8	26.7	26.4	27.2	27.9
	12H	21.1	21.9	21.8	22.5	23.2	26.5	27.2	27.1	27.9	28.5

8H	4H	21.3	22.1	21.9	22.7	23.3	24.2	25.0	24.8	25.6	26.2
	6H	21.8	22.5	22.4	23.1	23.8	25.6	26.3	26.2	26.9	27.6
	8H	21.9	22.6	22.6	23.2	23.9	26.3	26.9	27.0	27.6	28.3
	12H	22.0	22.6	22.7	23.2	24.0	27.2	27.7	27.8	28.3	29.1

12H	4H	21.4	22.2	22.1	22.8	23.5	24.2	24.9	24.8	25.5	26.2
	6H	22.0	22.7	22.7	23.3	24.0	25.6	26.2	26.3	26.8	27.6
	8H	22.3	22.8	22.9	23.4	24.2	26.4	26.9	27.0	27.6	28.3

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 2059.228 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.)