



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SEL45 UV FA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 8 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] Four 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	6788.003 (1 lamp)
Total Lamp Lumens	6788.003
Luminaire Lumens	6788
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	41.5
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)	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	5319	4952	5047
55	4782	4464	4679
65	4153	3931	4300
75	3310	3353	3908
85	1794	2795	3589

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	775.57	11.40	11.40
0-30	1636.89	24.10	24.10
0-40	2661.09	39.20	39.20
0-60	4661.86	68.70	68.70
0-80	5931.03	87.40	87.40
0-90	6206.49	91.40	91.40
10-90	6005.05	88.50	88.50
20-40	1885.53	27.80	27.80
20-50	2935.3	43.20	43.20
40-70	2758.29	40.60	40.60
60-80	1269.17	18.70	18.70
70-80	511.65	7.50	7.50
80-90	275.45	4.10	4.10
90-110	277.24	4.10	4.10
90-120	376.00	5.50	5.50
90-130	454.13	6.70	6.70
90-150	549.00	8.10	8.10
90-180	581.86	8.60	8.60
110-180	304.62	4.50	4.50
0-180	6788.35	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	201.44
10-20	574.13
20-30	861.33
30-40	1024.2
40-50	1049.77
50-60	951.00
60-70	757.52
70-80	511.65
80-90	275.45
90-100	155.10
100-110	122.14
110-120	98.75
120-130	78.14
130-140	57.45
140-150	37.42
150-160	20.85
160-170	9.50
170-180	2.52

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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	15.4	16.9	15.9	17.4	17.9	UGR Viewed Endwise			
	3H	16.8	18.2	17.4	18.7	19.2	17.7	19.2	18.2	19.7
	4H	17.3	18.5	17.8	19.0	19.6	20.1	21.4	20.6	21.9
	6H	17.5	18.7	18.1	19.2	19.8	21.1	22.4	21.6	22.9
	8H	17.6	18.7	18.1	19.2	19.9	22.2	23.4	22.7	23.9
	12H	17.6	18.7	18.1	19.2	19.8	22.7	23.8	23.3	24.4

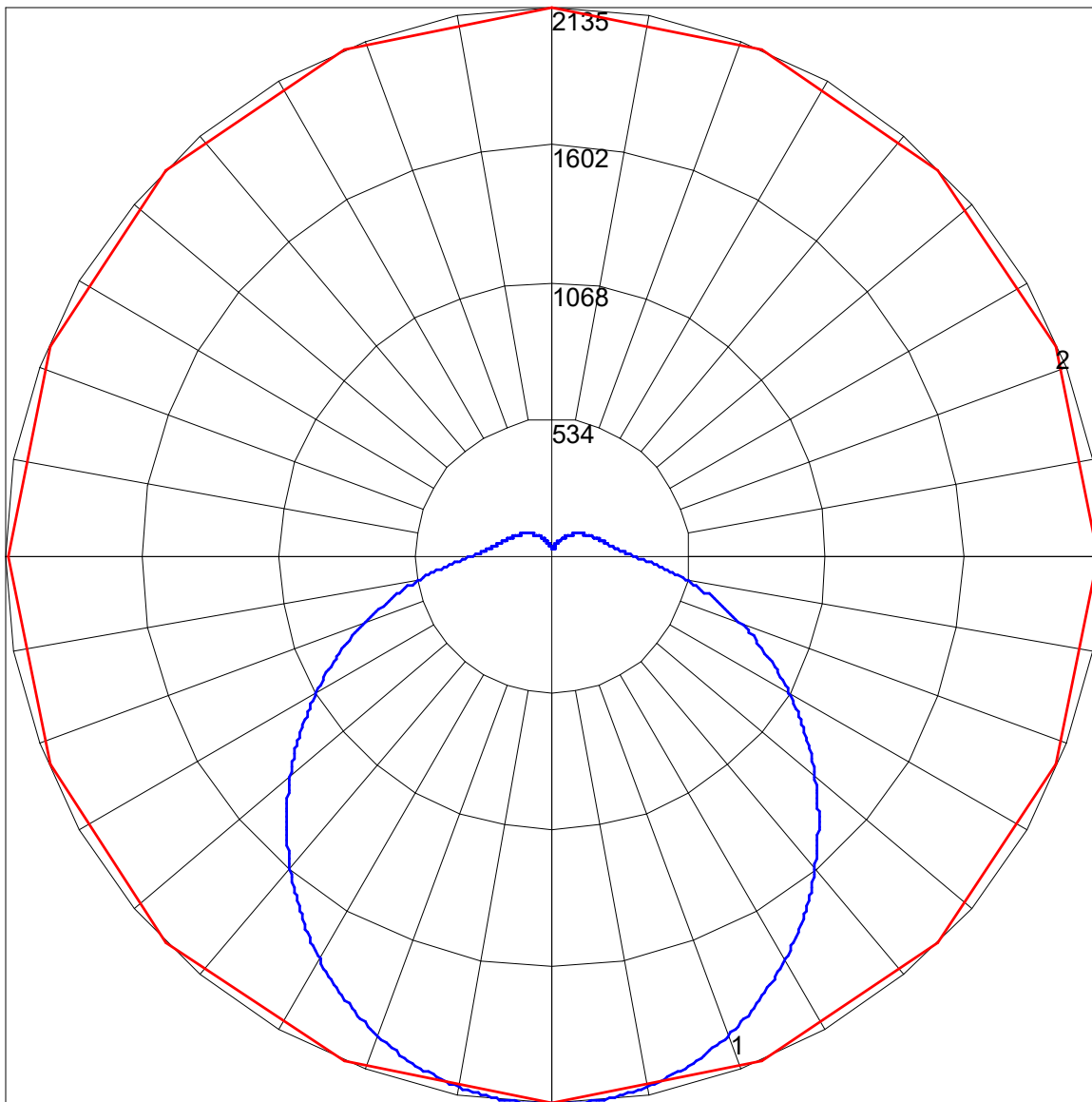
4H	2H	16.3	17.6	16.8	18.1	18.7	23.3	24.4	23.9	24.9
	3H	17.9	19.0	18.5	19.6	20.2	24.5	25.2	25.1	25.8
	4H	18.5	19.5	19.0	20.0	20.7	25.1	25.7	25.8	26.3
	6H	18.8	19.7	19.4	20.3	21.0	25.1	25.7	25.8	26.3
	8H	18.9	19.7	19.5	20.3	21.0	25.1	25.7	25.8	26.3
	12H	19.0	19.7	19.6	20.3	21.0	25.1	25.7	25.8	26.3

8H	4H	19.1	19.9	19.7	20.5	21.2	25.1	25.7	25.8	26.3
	6H	19.6	20.3	20.3	20.9	21.6	25.1	25.7	25.8	26.3
	8H	19.8	20.4	20.4	21.0	21.7	25.1	25.7	25.8	26.3
	12H	19.9	20.4	20.5	21.0	21.8	25.1	25.7	25.8	26.3

12H	4H	19.3	20.0	19.9	20.6	21.3	25.1	25.7	25.8	26.3
	6H	19.9	20.5	20.5	21.1	21.8	25.1	25.7	25.8	26.3
	8H	20.1	20.6	20.7	21.3	22.0	25.1	25.7	25.8	26.3

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 2135.385 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.)