



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SEL35 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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

CHARACTERISTICS

Lumens Per Lamp	5219.399 (1 lamp)
Total Lamp Lumens	5219.399
Luminaire Lumens	5220
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	31.1
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	4090	3807	3881
55	3677	3433	3598
65	3193	3023	3307
75	2545	2578	3005
85	1379	2149	2760

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	596.34	11.40	11.40
0-30	1258.63	24.10	24.10
0-40	2046.15	39.20	39.20
0-60	3584.58	68.70	68.70
0-80	4560.46	87.40	87.40
0-90	4772.26	91.40	91.40
10-90	4617.38	88.50	88.50
20-40	1449.81	27.80	27.80
20-50	2257.00	43.20	43.20
40-70	2120.89	40.60	40.60
60-80	975.88	18.70	18.70
70-80	393.42	7.50	7.50
80-90	211.80	4.10	4.10
90-110	213.18	4.10	4.10
90-120	289.11	5.50	5.50
90-130	349.19	6.70	6.70
90-150	422.13	8.10	8.10
90-180	447.40	8.60	8.60
110-180	234.23	4.50	4.50
0-180	5219.66	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.89
10-20	441.46
20-30	662.29
30-40	787.52
40-50	807.19
50-60	731.24
60-70	582.47
70-80	393.42
80-90	211.80
90-100	119.26
100-110	93.91
110-120	75.93
120-130	60.08
130-140	44.17
140-150	28.77
150-160	16.03
160-170	7.30
170-180	1.94

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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

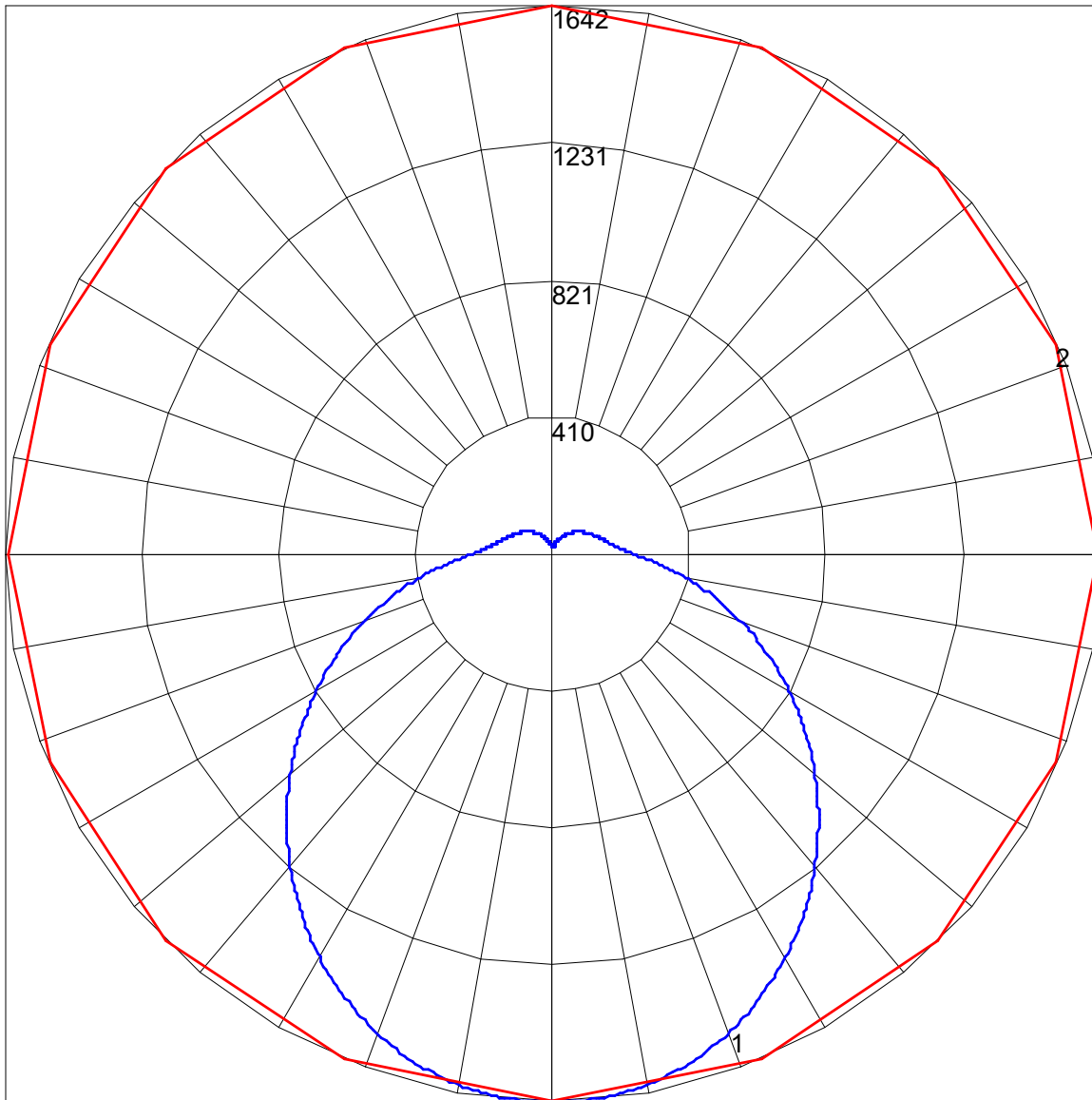
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.4	15.9	14.9	16.4	16.9	UGR Viewed Endwise				
	3H	15.8	17.2	16.4	17.7	18.2	16.7	18.2	17.2	18.7	19.2
	4H	16.3	17.5	16.8	18.0	18.6	19.1	20.4	19.6	20.9	21.5
	6H	16.5	17.7	17.1	18.2	18.8	20.1	21.4	20.6	21.9	22.5
	8H	16.6	17.7	17.1	18.2	18.9	21.2	22.4	21.7	22.9	23.5
	12H	16.6	17.7	17.1	18.2	18.8	21.7	22.8	22.3	23.4	24.0
							22.3	23.4	22.9	23.9	24.5
4H	2H	15.3	16.6	15.8	17.1	17.7	17.1	18.4	17.7	18.9	19.5
	3H	16.9	18.0	17.5	18.6	19.2	19.7	20.7	20.2	21.3	21.9
	4H	17.5	18.5	18.0	19.0	19.7	20.9	21.9	21.5	22.4	23.1
	6H	17.8	18.7	18.4	19.3	20.0	22.2	23.0	22.7	23.6	24.3
	8H	17.9	18.7	18.5	19.3	20.0	22.8	23.6	23.4	24.2	24.9
	12H	18.0	18.7	18.6	19.3	20.0	23.5	24.2	24.1	24.8	25.5
8H	4H	18.1	18.9	18.7	19.5	20.2	21.1	21.9	21.7	22.5	23.1
	6H	18.6	19.3	19.3	19.9	20.6	22.5	23.2	23.1	23.8	24.5
	8H	18.8	19.4	19.4	20.0	20.7	23.3	23.9	23.9	24.5	25.2
	12H	18.9	19.4	19.5	20.0	20.8	24.1	24.7	24.8	25.3	26.0
12H	4H	18.3	19.0	18.9	19.6	20.3	21.1	21.8	21.7	22.4	23.1
	6H	18.9	19.5	19.5	20.1	20.8	22.5	23.1	23.2	23.7	24.5
	8H	19.1	19.6	19.7	20.3	21.0	23.3	23.9	24.0	24.5	25.3

Maximum UGR = 26.0

POLAR GRAPH



Maximum Candela = 1641.93 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.)