



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SEL25 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 SEL25 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-25-UV-PS450-54-VDIM-LP2 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

CHARACTERISTICS

Lumens Per Lamp	3632.4 (1 lamp)
Total Lamp Lumens	3632.4
Luminaire Lumens	3633
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	22
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	2846	2650	2701
55	2559	2389	2504
65	2222	2104	2301
75	1771	1794	2091
85	960	1496	1921

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	415.02	11.40	11.40
0-30	875.93	24.10	24.10
0-40	1424.01	39.20	39.20
0-60	2494.66	68.70	68.70
0-80	3173.82	87.40	87.40
0-90	3321.22	91.40	91.40
10-90	3213.43	88.50	88.50
20-40	1008.98	27.80	27.80
20-50	1570.74	43.20	43.20
40-70	1476.02	40.60	40.60
60-80	679.16	18.70	18.70
70-80	273.80	7.50	7.50
80-90	147.40	4.10	4.10
90-110	148.36	4.10	4.10
90-120	201.20	5.50	5.50
90-130	243.02	6.70	6.70
90-150	293.78	8.10	8.10
90-180	311.37	8.60	8.60
110-180	163.01	4.50	4.50
0-180	3632.58	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.79
10-20	307.23
20-30	460.91
30-40	548.07
40-50	561.76
50-60	508.90
60-70	405.36
70-80	273.80
80-90	147.40
90-100	83.00
100-110	65.36
110-120	52.85
120-130	41.81
130-140	30.74
140-150	20.02
150-160	11.16
160-170	5.08
170-180	1.35

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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	13.2	14.7	13.7	15.2	15.7	15.5	17.0	16.0	17.5	18.0
	3H	14.6	16.0	15.2	16.5	17.0	17.9	19.2	18.4	19.7	20.3
	4H	15.1	16.3	15.6	16.8	17.4	18.9	20.2	19.4	20.7	21.3
	6H	15.3	16.5	15.9	17.0	17.6	20.0	21.2	20.5	21.7	22.3
	8H	15.4	16.5	15.9	17.0	17.7	20.5	21.6	21.1	22.2	22.8
	12H	15.4	16.5	15.9	17.0	17.6	21.1	22.2	21.7	22.7	23.3

UGR Viewed Endwise

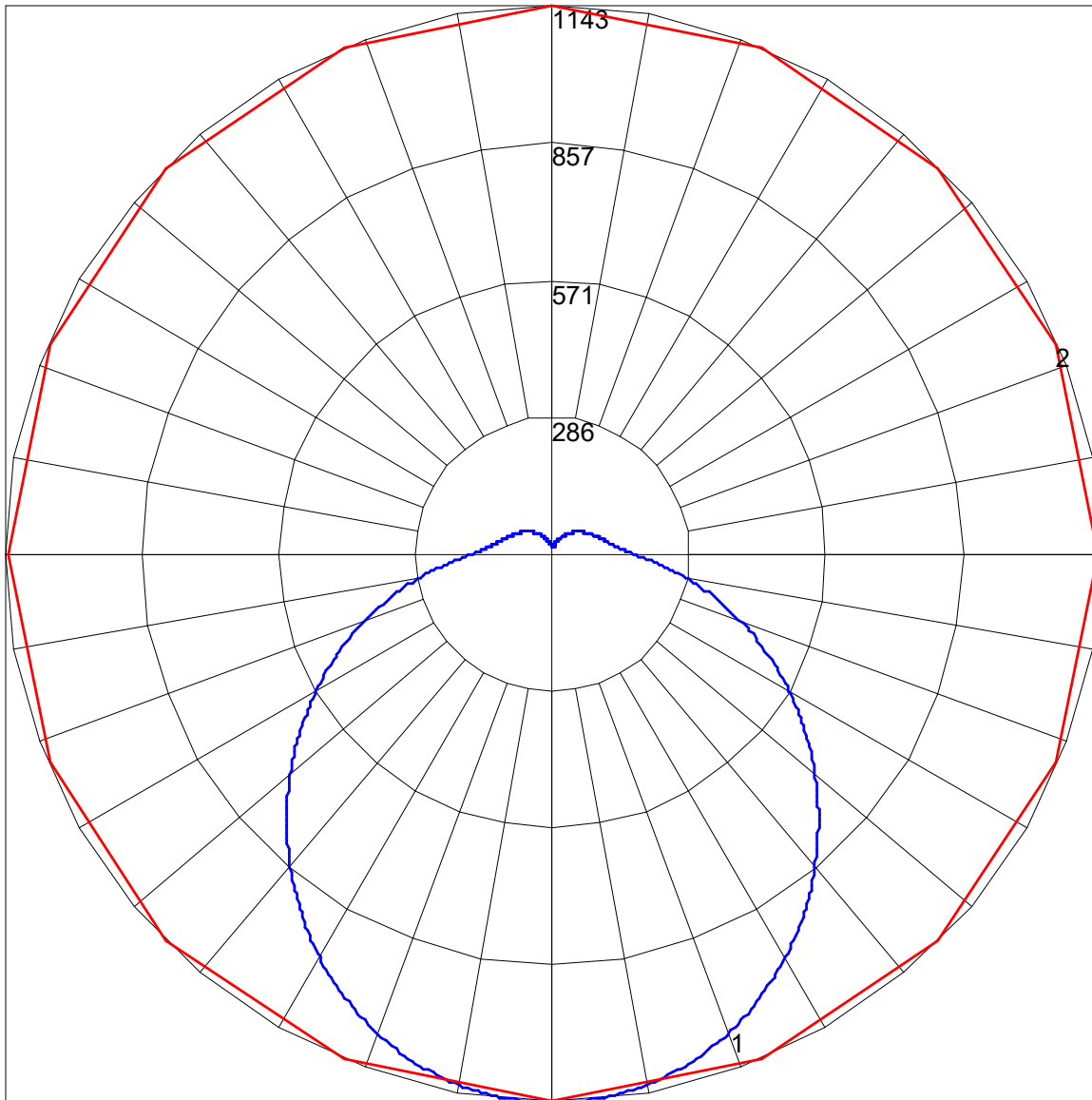
4H	2H	14.1	15.4	14.6	15.9	16.5	15.9	17.2	16.5	17.7	18.3
	3H	15.7	16.8	16.3	17.4	18.0	18.5	19.5	19.0	20.1	20.7
	4H	16.3	17.3	16.8	17.8	18.5	19.7	20.7	20.3	21.2	21.9
	6H	16.6	17.5	17.2	18.1	18.8	21.0	21.8	21.5	22.4	23.1
	8H	16.7	17.5	17.3	18.1	18.8	21.6	22.4	22.2	23.0	23.7
	12H	16.8	17.5	17.4	18.1	18.8	22.3	23.0	22.9	23.6	24.3

8H	4H	16.9	17.7	17.5	18.3	19.0	19.9	20.7	20.5	21.3	21.9
	6H	17.4	18.1	18.1	18.7	19.4	21.3	22.0	21.9	22.6	23.3
	8H	17.6	18.2	18.2	18.8	19.5	22.1	22.7	22.7	23.3	24.0
	12H	17.7	18.2	18.3	18.8	19.6	22.9	23.5	23.6	24.1	24.8

12H	4H	17.1	17.8	17.7	18.4	19.1	19.9	20.6	20.5	21.2	21.9
	6H	17.7	18.3	18.3	18.9	19.6	21.3	21.9	22.0	22.5	23.3
	8H	17.9	18.4	18.5	19.1	19.8	22.1	22.7	22.8	23.3	24.1

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 1142.688 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.)