



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 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 4 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] Two 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	5064.375 (1 lamp)
Total Lamp Lumens	5064.375
Luminaire Lumens	5065
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	31.9
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	7826	7326	7531
55	6994	6587	6982
65	6016	5777	6417
75	4700	4895	5831
85	2346	4026	5355

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.63	11.40	11.40
0-30	1221.25	24.10	24.10
0-40	1985.38	39.20	39.20
0-60	3478.11	68.70	68.70
0-80	4425.01	87.40	87.40
0-90	4630.52	91.40	91.40
10-90	4480.23	88.50	88.50
20-40	1406.75	27.80	27.80
20-50	2189.96	43.20	43.20
40-70	2057.9	40.60	40.60
60-80	946.90	18.70	18.70
70-80	381.73	7.50	7.50
80-90	205.51	4.10	4.10
90-110	206.84	4.10	4.10
90-120	280.52	5.50	5.50
90-130	338.82	6.70	6.70
90-150	409.59	8.10	8.10
90-180	434.11	8.60	8.60
110-180	227.27	4.50	4.50
0-180	5064.63	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.29
10-20	428.35
20-30	642.62
30-40	764.13
40-50	783.21
50-60	709.52
60-70	565.17
70-80	381.73
80-90	205.51
90-100	115.72
100-110	91.12
110-120	73.68
120-130	58.30
130-140	42.86
140-150	27.92
150-160	15.55
160-170	7.09
170-180	1.88

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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	16.7	18.2	17.2	18.7	19.2	UGR Viewed Endwise			
	3H	18.1	19.4	18.6	20.0	20.5	19.0	20.4	19.5	20.9
	4H	18.6	19.8	19.1	20.3	20.9	21.3	22.6	21.8	23.1
	6H	18.8	20.0	19.4	20.5	21.1	22.3	23.6	22.8	24.1
	8H	18.9	20.0	19.4	20.5	21.1	23.4	24.5	23.9	25.1
	12H	18.9	19.9	19.4	20.5	21.1	23.9	25.0	24.4	25.5
							24.4	25.5	25.0	26.0

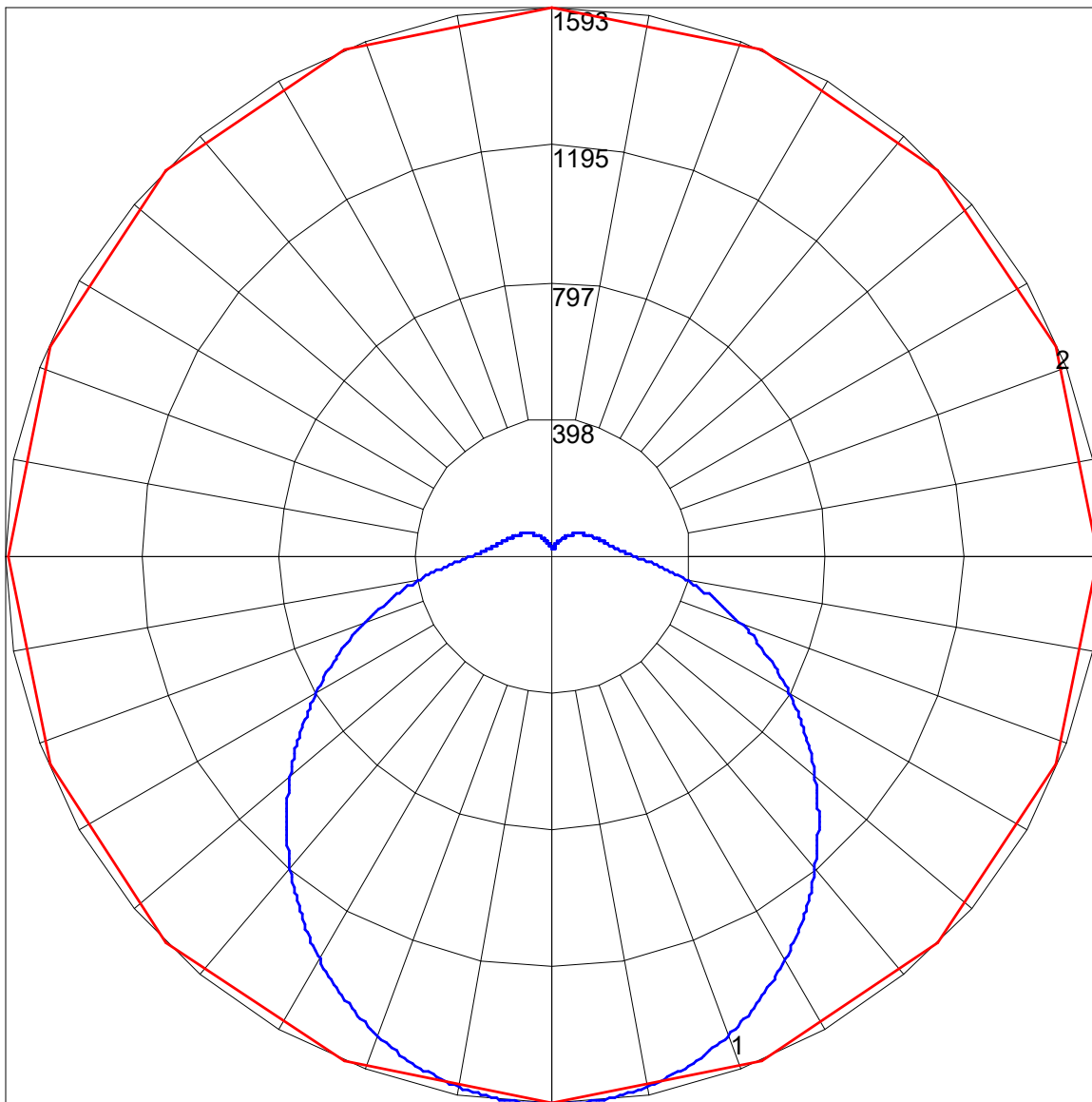
4H	2H	17.6	18.8	18.1	19.4	19.9	19.4	20.6	19.9	21.1
	3H	19.2	20.3	19.8	20.8	21.5	21.9	23.0	22.4	23.5
	4H	19.8	20.7	20.3	21.3	21.9	23.1	24.1	23.7	24.6
	6H	20.1	21.0	20.7	21.6	22.2	24.3	25.2	24.9	25.8
	8H	20.2	21.0	20.8	21.6	22.3	24.9	25.8	25.5	26.3
	12H	20.2	21.0	20.9	21.6	22.3	25.6	26.3	26.2	27.0

8H	4H	20.4	21.2	21.0	21.8	22.4	23.3	24.1	23.9	24.7
	6H	20.9	21.6	21.5	22.2	22.9	24.7	25.4	25.3	26.0
	8H	21.0	21.7	21.7	22.3	23.0	25.4	26.0	26.1	26.7
	12H	21.1	21.7	21.8	22.3	23.1	26.3	26.8	26.9	27.4

12H	4H	20.5	21.3	21.2	21.9	22.6	23.3	24.0	23.9	24.6
	6H	21.1	21.8	21.8	22.4	23.1	24.7	25.3	25.4	25.9
	8H	21.4	21.9	22.0	22.5	23.3	25.5	26.0	26.1	26.7

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 1593.162 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.)