



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 2 SEL45 UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-003A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 1/3/2025

[MANUFAC] Lumen Focus, LLC

[LUMCAT] EWL S G2 2 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] One CL115-4000K-R90-A5-CREE G CLASS PRO9 84UP LED board with 84 LEDs.

[BALLAST] One Keystone Technologies KTLD-45-UV-PS850-54-VDIM-LM1 LED selectable output driver

[OTHER] 119.9Vac, 60.00Hz

CHARACTERISTICS

Lumens Per Lamp	5463.601 (1 lamp)
Total Lamp Lumens	5463.601
Luminaire Lumens	5464
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	36.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 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	16144	15499	16372
55	14154	13799	15209
65	11906	11999	13996
75	8949	10044	12727
85	3896	8140	11771

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	629.38	11.50	11.50
0-30	1325.99	24.30	24.30
0-40	2151.13	39.40	39.40
0-60	3754.66	68.70	68.70
0-80	4770.39	87.30	87.30
0-90	4993.78	91.40	91.40
10-90	4830.11	88.40	88.40
20-40	1521.75	27.90	27.90
20-50	2364.28	43.30	43.30
40-70	2209.15	40.40	40.40
60-80	1015.72	18.60	18.60
70-80	410.11	7.50	7.50
80-90	223.39	4.10	4.10
90-110	224.35	4.10	4.10
90-120	303.11	5.50	5.50
90-130	365.38	6.70	6.70
90-150	442.03	8.10	8.10
90-180	469.76	8.60	8.60
110-180	245.41	4.50	4.50
0-180	5463.53	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.67
10-20	465.72
20-30	696.60
30-40	825.15
40-50	842.53
50-60	761.00
60-70	605.61
70-80	410.11
80-90	223.39
90-100	126.34
100-110	98.01
110-120	78.76
120-130	62.27
130-140	46.05
140-150	30.61
150-160	17.60
160-170	8.13
170-180	2.00

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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	45	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	61	48	40	34	46	38	33	43	37	32	41	36	31	29
8	58	45	36	31	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	27	37	30	26	35	30	25	23
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	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	19.2	20.7	19.7	21.2	21.7	21.6	23.1	22.1	23.6	24.1
	3H	20.6	22.0	21.2	22.5	23.0	23.9	25.2	24.4	25.7	26.3
	4H	21.1	22.3	21.6	22.8	23.4	24.9	26.2	25.4	26.7	27.3
	6H	21.3	22.5	21.9	23.0	23.6	25.9	27.1	26.4	27.6	28.2
	8H	21.4	22.5	21.9	23.0	23.7	26.4	27.5	26.9	28.1	28.7
	12H	21.4	22.5	21.9	23.0	23.6	26.9	27.9	27.4	28.5	29.1

UGR Viewed Endwise

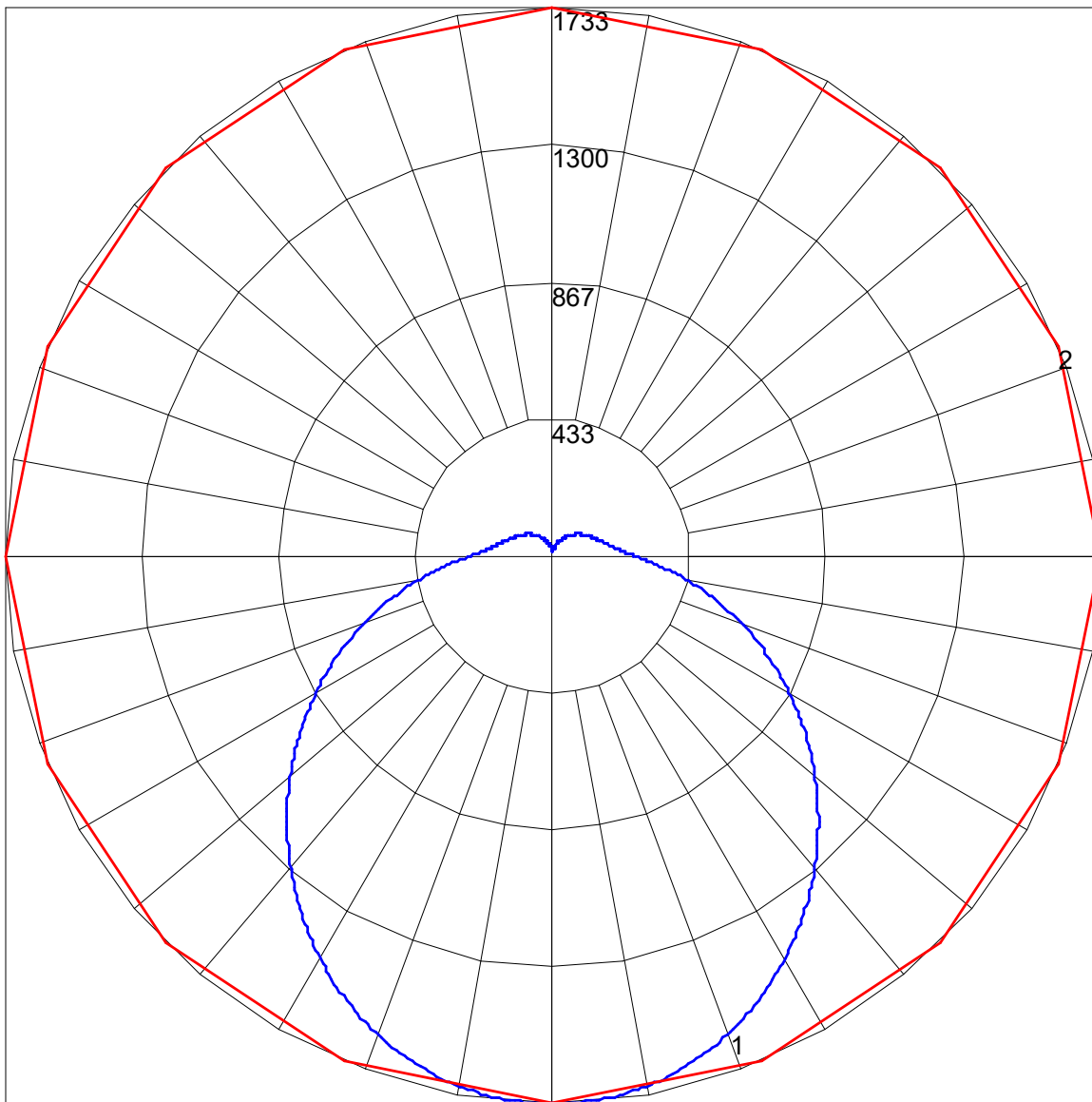
4H	2H	20.1	21.4	20.7	21.9	22.5	22.0	23.2	22.5	23.8	24.4
	3H	21.7	22.8	22.3	23.4	24.0	24.5	25.5	25.0	26.1	26.7
	4H	22.3	23.2	22.8	23.8	24.5	25.7	26.6	26.2	27.2	27.9
	6H	22.6	23.5	23.2	24.1	24.7	26.9	27.7	27.5	28.3	29.0
	8H	22.7	23.5	23.3	24.1	24.8	27.5	28.3	28.0	28.8	29.5
	12H	22.7	23.5	23.4	24.1	24.8	28.1	28.8	28.7	29.4	30.1

8H	4H	22.9	23.7	23.5	24.3	25.0	25.8	26.6	26.4	27.2	27.9
	6H	23.4	24.1	24.0	24.7	25.4	27.2	27.9	27.8	28.5	29.2
	8H	23.6	24.2	24.2	24.8	25.5	27.9	28.5	28.6	29.2	29.9
	12H	23.6	24.2	24.3	24.8	25.6	28.7	29.2	29.3	29.9	30.6

12H	4H	23.0	23.8	23.7	24.4	25.1	25.8	26.6	26.5	27.2	27.9
	6H	23.6	24.3	24.3	24.9	25.6	27.2	27.8	27.9	28.5	29.2
	8H	23.9	24.4	24.5	25.0	25.8	28.0	28.5	28.6	29.2	29.9

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1733.352 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)