



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 VH 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 VH 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 CL115-4000K-R90-A5 CREE G CLASS PRO 9 84UP LED boards with 84 LEDs each.

[BALLAST] One Keystone Technologies KTLD-85-UV-P2300-55-VDIM-LT2 LED driver set at 1,580mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	71.6
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	16510	15456	15886
55	14755	13896	14729
65	12692	12187	13536
75	9914	10327	12301
85	4949	8494	11298

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1220.68	N.A.	11.40
0-30	2576.35	N.A.	24.10
0-40	4188.36	N.A.	39.20
0-60	7337.42	N.A.	68.70
0-80	9335.00	N.A.	87.40
0-90	9768.54	N.A.	91.40
10-90	9451.5	N.A.	88.50
20-40	2967.68	N.A.	27.80
20-50	4619.94	N.A.	43.20
40-70	4341.34	N.A.	40.60
60-80	1997.58	N.A.	18.70
70-80	805.30	N.A.	7.50
80-90	433.54	N.A.	4.10
90-110	436.36	N.A.	4.10
90-120	591.79	N.A.	5.50
90-130	714.77	N.A.	6.70
90-150	864.08	N.A.	8.10
90-180	915.81	N.A.	8.60
110-180	479.45	N.A.	4.50
0-180	10684.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	317.04
10-20	903.64
20-30	1355.66
30-40	1612.01
40-50	1652.26
50-60	1496.8
60-70	1192.28
70-80	805.30
80-90	433.54
90-100	244.12
100-110	192.24
110-120	155.43
120-130	122.98
130-140	90.42
140-150	58.89
150-160	32.81
160-170	14.95
170-180	3.96

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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	19.3	20.8	19.8	21.3	21.8	21.6	23.0	22.1	23.5	24.1
	3H	20.7	22.0	21.2	22.5	23.1	23.9	25.2	24.4	25.7	26.3
	4H	21.1	22.4	21.7	22.9	23.5	24.9	26.2	25.4	26.7	27.3
	6H	21.4	22.6	22.0	23.1	23.7	26.0	27.1	26.5	27.7	28.3
	8H	21.5	22.6	22.0	23.1	23.7	26.5	27.6	27.0	28.1	28.7
	12H	21.5	22.5	22.0	23.1	23.7	27.0	28.1	27.6	28.6	29.3

UGR Viewed Endwise

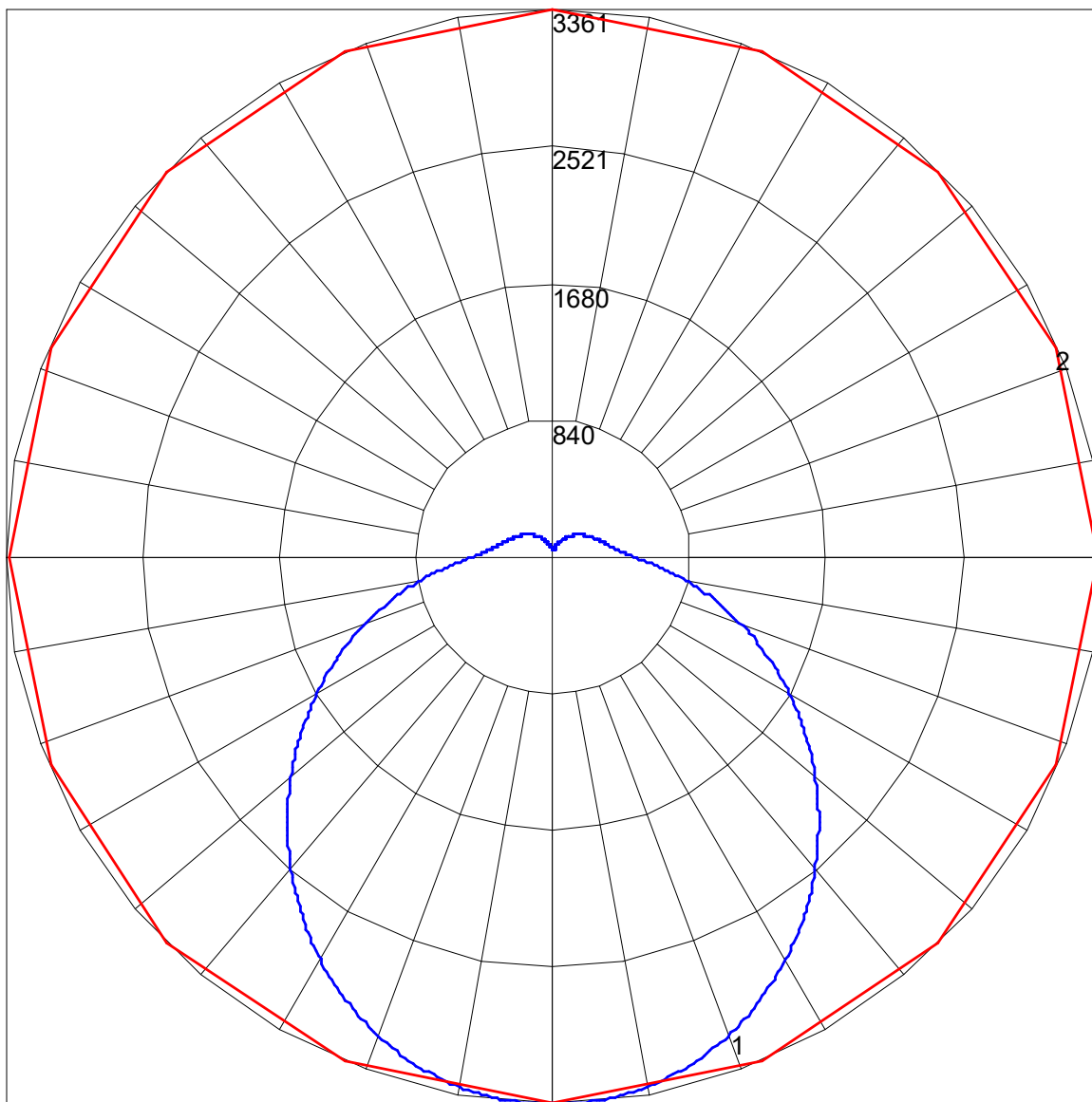
4H	2H	20.2	21.4	20.7	21.9	22.5	22.0	23.2	22.5	23.7	24.3
	3H	21.8	22.9	22.4	23.4	24.0	24.5	25.5	25.0	26.1	26.7
	4H	22.4	23.3	22.9	23.9	24.5	25.7	26.7	26.3	27.2	27.9
	6H	22.7	23.6	23.3	24.2	24.8	26.9	27.8	27.5	28.4	29.0
	8H	22.8	23.6	23.4	24.2	24.9	27.5	28.3	28.1	28.9	29.6
	12H	22.8	23.6	23.4	24.2	24.9	28.2	28.9	28.8	29.5	30.2

8H	4H	23.0	23.8	23.6	24.4	25.0	25.9	26.7	26.5	27.3	27.9
	6H	23.5	24.2	24.1	24.8	25.5	27.3	27.9	27.9	28.6	29.3
	8H	23.6	24.2	24.3	24.9	25.6	28.0	28.6	28.6	29.3	29.9
	12H	23.7	24.3	24.4	24.9	25.7	28.8	29.4	29.5	30.0	30.8

12H	4H	23.1	23.9	23.7	24.5	25.2	25.9	26.6	26.5	27.2	27.9
	6H	23.7	24.3	24.4	25.0	25.7	27.3	27.9	27.9	28.5	29.3
	8H	24.0	24.5	24.6	25.1	25.9	28.1	28.6	28.7	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 3360.936 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.)