



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 LW 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 LW 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-50-UV-P1400-55-VDIM-LT1 LED driver set at 1,100mA

[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	8725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	54.3
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	6836	6364	6486
55	6145	5738	6014
65	5337	5052	5527
75	4254	4309	5022
85	2306	3592	4613

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	996.79	N.A.	11.40
0-30	2103.79	N.A.	24.10
0-40	3420.13	N.A.	39.20
0-60	5991.6	N.A.	68.70
0-80	7622.78	N.A.	87.40
0-90	7976.8	N.A.	91.40
10-90	7717.91	N.A.	88.50
20-40	2423.35	N.A.	27.80
20-50	3772.56	N.A.	43.20
40-70	3545.05	N.A.	40.60
60-80	1631.18	N.A.	18.70
70-80	657.59	N.A.	7.50
80-90	354.02	N.A.	4.10
90-110	356.32	N.A.	4.10
90-120	483.25	N.A.	5.50
90-130	583.67	N.A.	6.70
90-150	705.59	N.A.	8.10
90-180	747.83	N.A.	8.60
110-180	391.51	N.A.	4.50
0-180	8724.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	258.89
10-20	737.89
20-30	1107.01
30-40	1316.34
40-50	1349.21
50-60	1222.26
60-70	973.59
70-80	657.59
80-90	354.02
90-100	199.35
100-110	156.98
110-120	126.92
120-130	100.42
130-140	73.83
140-150	48.09
150-160	26.79
160-170	12.21
170-180	3.24

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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	72	80	74	69	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	44	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	35	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	16.2	17.7	16.7	18.2	18.7	18.5	20.0	19.0	20.5	21.0
	3H	17.6	18.9	18.1	19.5	20.0	20.8	22.2	21.4	22.7	23.2
	4H	18.1	19.3	18.6	19.8	20.4	21.9	23.2	22.4	23.7	24.3
	6H	18.3	19.5	18.9	20.0	20.6	23.0	24.1	23.5	24.7	25.3
	8H	18.4	19.5	18.9	20.0	20.6	23.5	24.6	24.1	25.2	25.8
	12H	18.4	19.4	18.9	20.0	20.6	24.1	25.2	24.6	25.7	26.3

UGR Viewed Endwise

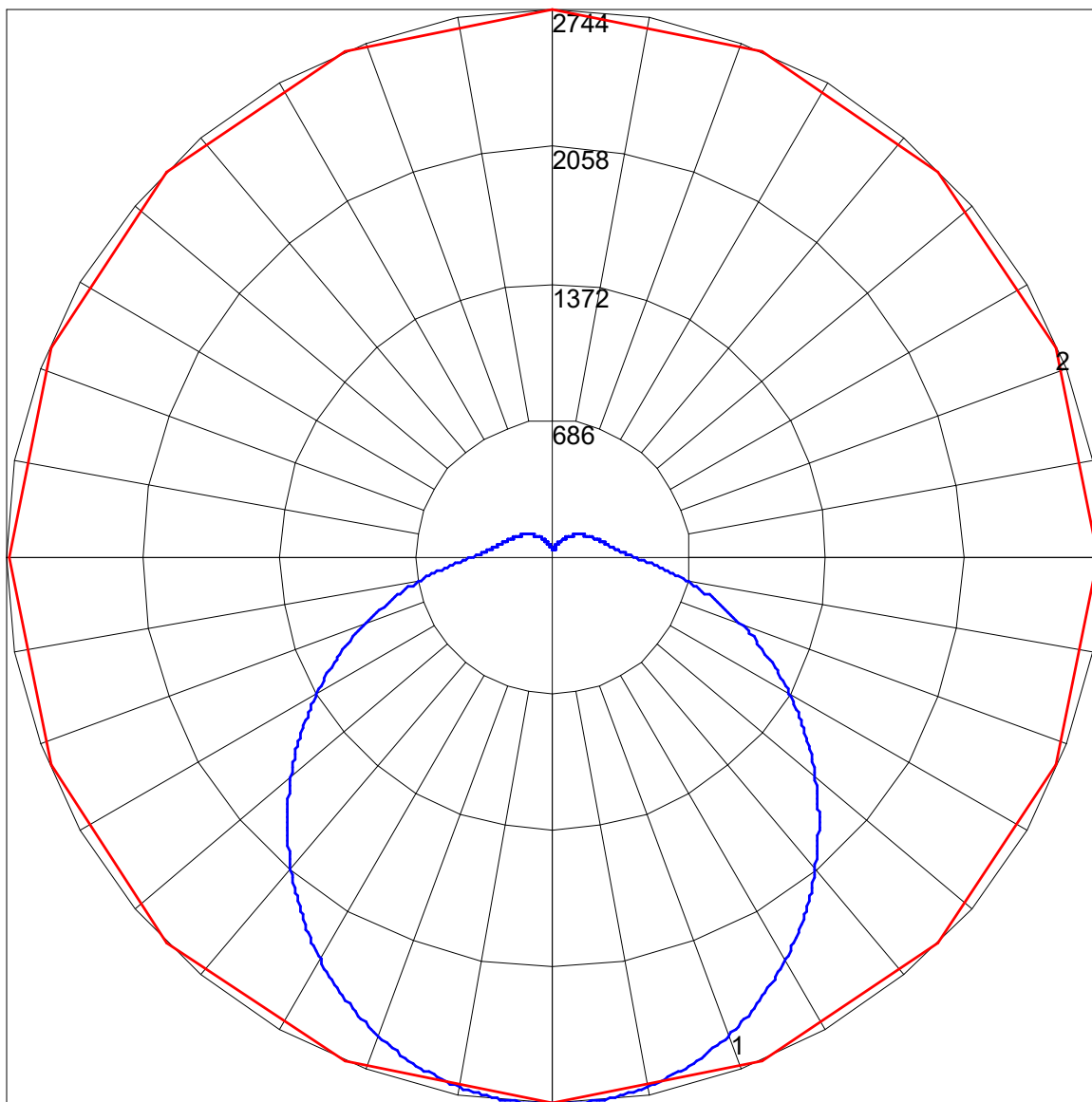
4H	2H	17.1	18.3	17.6	18.9	19.4	18.9	20.2	19.4	20.7	21.3
	3H	18.7	19.8	19.3	20.4	21.0	21.5	22.5	22.0	23.1	23.7
	4H	19.3	20.2	19.8	20.8	21.5	22.7	23.7	23.3	24.2	24.9
	6H	19.6	20.5	20.2	21.1	21.7	23.9	24.8	24.5	25.4	26.1
	8H	19.7	20.5	20.3	21.1	21.8	24.6	25.4	25.2	26.0	26.6
	12H	19.8	20.5	20.4	21.1	21.8	25.3	26.0	25.9	26.6	27.3

8H	4H	19.9	20.7	20.5	21.3	22.0	22.9	23.7	23.5	24.3	24.9
	6H	20.4	21.1	21.1	21.7	22.4	24.3	25.0	24.9	25.6	26.3
	8H	20.6	21.2	21.2	21.8	22.5	25.0	25.7	25.7	26.3	27.0
	12H	20.7	21.2	21.3	21.8	22.6	25.9	26.5	26.6	27.1	27.8

12H	4H	20.1	20.8	20.7	21.4	22.1	22.9	23.6	23.5	24.2	24.9
	6H	20.7	21.3	21.3	21.9	22.6	24.3	24.9	25.0	25.5	26.3
	8H	20.9	21.4	21.5	22.1	22.8	25.1	25.7	25.8	26.3	27.1

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2744.475 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.)