



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SL 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 SL 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-30-UV-P1050-55-VDIM-LT1 LED driver set at 560mA

[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	4507
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	27.3
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	3532	3288	3351
55	3175	2964	3107
65	2757	2610	2855
75	2198	2226	2595
85	1191	1856	2383

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	514.95	N.A.	11.40
0-30	1086.85	N.A.	24.10
0-40	1766.88	N.A.	39.20
0-60	3095.33	N.A.	68.70
0-80	3938.02	N.A.	87.40
0-90	4120.91	N.A.	91.40
10-90	3987.17	N.A.	88.50
20-40	1251.93	N.A.	27.80
20-50	1948.95	N.A.	43.20
40-70	1831.42	N.A.	40.60
60-80	842.69	N.A.	18.70
70-80	339.72	N.A.	7.50
80-90	182.89	N.A.	4.10
90-110	184.08	N.A.	4.10
90-120	249.65	N.A.	5.50
90-130	301.53	N.A.	6.70
90-150	364.52	N.A.	8.10
90-180	386.34	N.A.	8.60
110-180	202.26	N.A.	4.50
0-180	4507.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.75
10-20	381.20
20-30	571.89
30-40	680.04
40-50	697.02
50-60	631.43
60-70	502.97
70-80	339.72
80-90	182.89
90-100	102.98
100-110	81.10
110-120	65.57
120-130	51.88
130-140	38.14
140-150	24.84
150-160	13.84
160-170	6.31
170-180	1.67

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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**

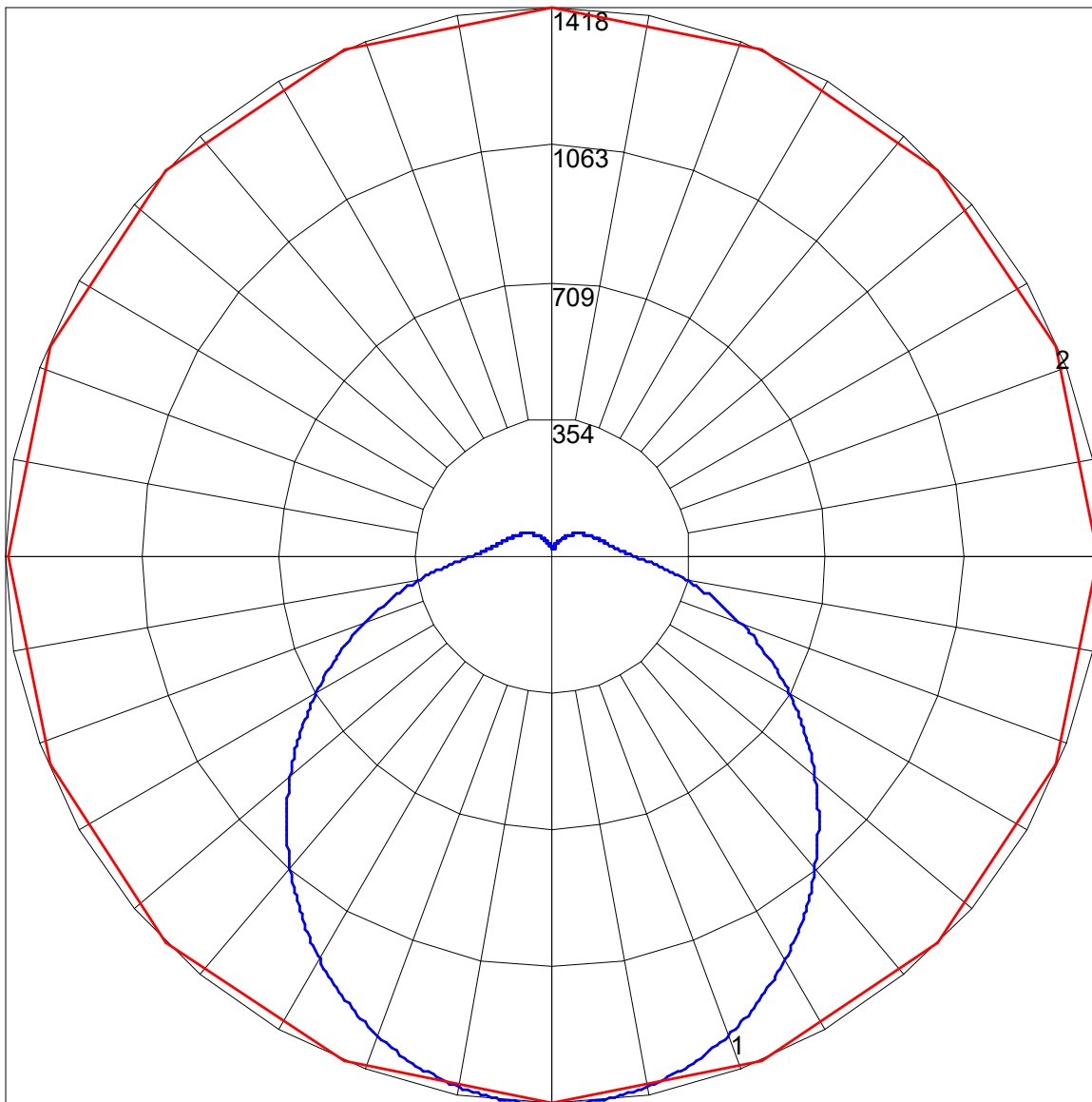
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.9	15.4	14.4	15.9	16.4	16.2	17.7	16.7	18.2	18.7
	3H	15.3	16.7	15.8	17.2	17.7	18.5	19.9	19.1	20.4	20.9
	4H	15.8	17.0	16.3	17.5	18.1	19.6	20.9	20.1	21.4	22.0
	6H	16.0	17.2	16.6	17.7	18.3	20.7	21.8	21.2	22.4	23.0
	8H	16.1	17.2	16.6	17.7	18.3	21.2	22.3	21.8	22.9	23.5
	12H	16.1	17.1	16.6	17.7	18.3	21.8	22.9	22.3	23.4	24.0
4H	2H	14.8	16.0	15.3	16.6	17.1	16.6	17.9	17.1	18.4	19.0
	3H	16.4	17.5	17.0	18.1	18.7	19.2	20.2	19.7	20.8	21.4
	4H	17.0	17.9	17.5	18.5	19.2	20.4	21.4	21.0	21.9	22.6
	6H	17.3	18.2	17.9	18.8	19.4	21.6	22.5	22.2	23.1	23.8
	8H	17.4	18.2	18.0	18.8	19.5	22.3	23.1	22.9	23.7	24.3
	12H	17.5	18.2	18.1	18.8	19.5	23.0	23.7	23.6	24.3	25.0
8H	4H	17.6	18.4	18.2	19.0	19.7	20.6	21.4	21.2	22.0	22.6
	6H	18.1	18.8	18.8	19.4	20.1	22.0	22.7	22.6	23.3	24.0
	8H	18.3	18.9	18.9	19.5	20.2	22.7	23.4	23.4	24.0	24.7
	12H	18.4	18.9	19.0	19.5	20.3	23.6	24.2	24.3	24.8	25.5
12H	4H	17.8	18.5	18.4	19.1	19.8	20.6	21.3	21.2	21.9	22.6
	6H	18.4	19.0	19.0	19.6	20.3	22.0	22.6	22.7	23.2	24.0
	8H	18.6	19.1	19.2	19.8	20.5	22.8	23.4	23.5	24.0	24.8

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1417.829 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.)