



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 VL 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 VL 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 830mA

[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	6633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	40.8
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	5197	4838	4931
55	4672	4362	4572
65	4057	3841	4202
75	3234	3276	3818
85	1753	2731	3507

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	757.78	N.A.	11.40
0-30	1599.36	N.A.	24.10
0-40	2600.08	N.A.	39.20
0-60	4554.97	N.A.	68.70
0-80	5795.04	N.A.	87.40
0-90	6064.17	N.A.	91.40
10-90	5867.36	N.A.	88.50
20-40	1842.29	N.A.	27.80
20-50	2868.00	N.A.	43.20
40-70	2695.04	N.A.	40.60
60-80	1240.07	N.A.	18.70
70-80	499.92	N.A.	7.50
80-90	269.14	N.A.	4.10
90-110	270.89	N.A.	4.10
90-120	367.38	N.A.	5.50
90-130	443.72	N.A.	6.70
90-150	536.41	N.A.	8.10
90-180	568.52	N.A.	8.60
110-180	297.63	N.A.	4.50
0-180	6632.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.82
10-20	560.97
20-30	841.58
30-40	1000.72
40-50	1025.7
50-60	929.19
60-70	740.15
70-80	499.92
80-90	269.14
90-100	151.55
100-110	119.34
110-120	96.49
120-130	76.34
130-140	56.13
140-150	36.56
150-160	20.37
160-170	9.28
170-180	2.46

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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	15.3	16.8	15.8	17.3	17.8	UGR Viewed Endwise			
	3H	16.7	18.0	17.2	18.6	19.1	17.6	19.1	18.1	19.6
	4H	17.2	18.4	17.7	18.9	19.5	19.9	21.3	20.5	21.8
	6H	17.4	18.6	18.0	19.1	19.7	21.0	22.3	21.5	22.8
	8H	17.5	18.6	18.0	19.1	19.7	22.1	23.2	22.6	23.8
	12H	17.5	18.5	18.0	19.1	19.7	22.6	23.7	23.2	24.3
							23.2	24.3	23.7	24.8

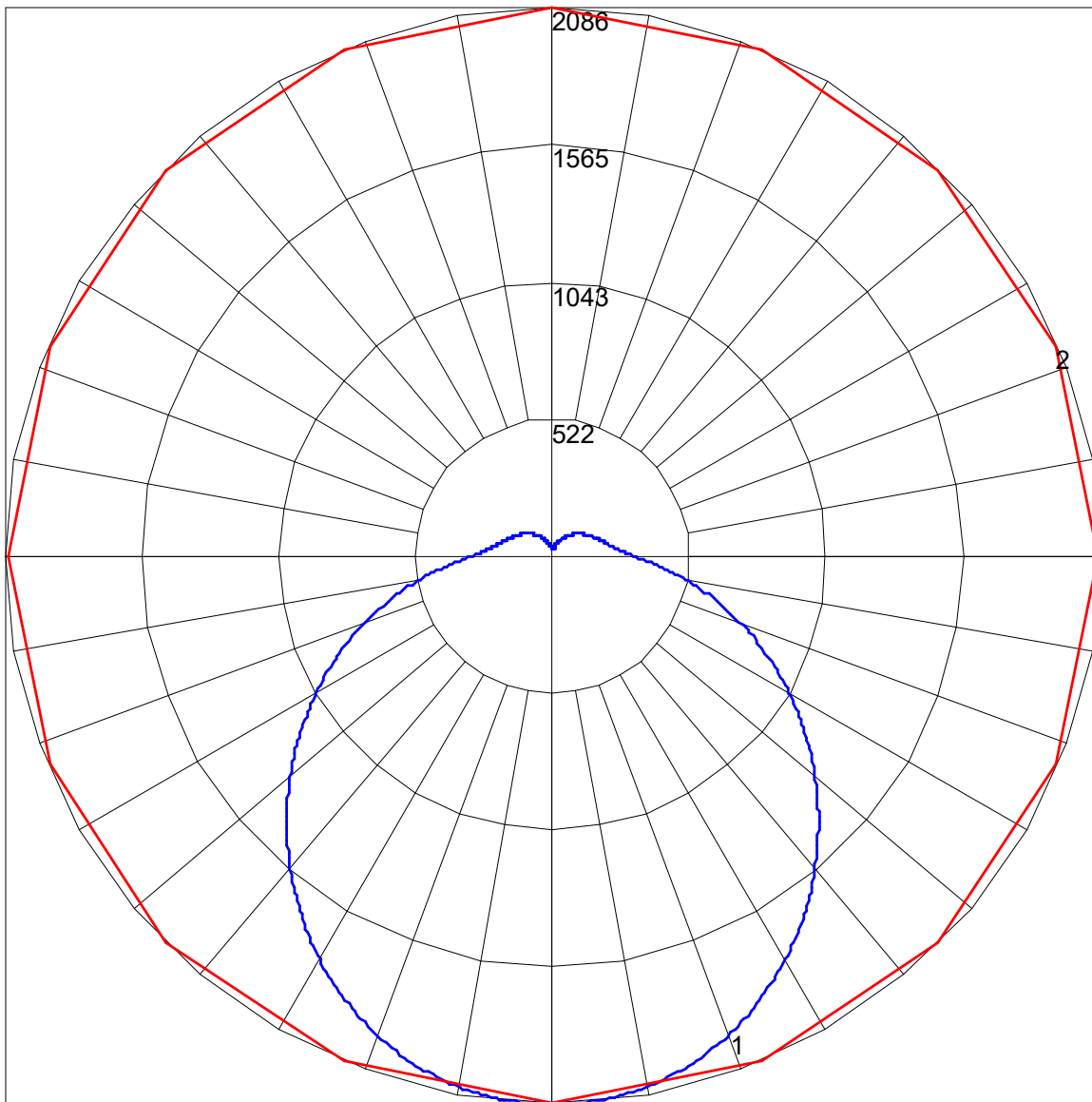
4H	2H	16.2	17.4	16.7	18.0	18.5	18.0	19.3	18.5	19.8
	3H	17.8	18.9	18.4	19.5	20.1	19.6	21.1	20.5	21.8
	4H	18.4	19.3	18.9	19.9	20.6	21.0	22.3	21.5	22.8
	6H	18.7	19.6	19.3	20.2	20.8	21.8	22.8	22.4	23.3
	8H	18.8	19.6	19.4	20.2	20.9	22.4	23.9	23.6	24.5
	12H	18.9	19.6	19.5	20.2	20.9	23.0	24.5	24.3	25.1
							23.7	24.5	24.3	25.1
							24.4	25.1	25.0	25.7

8H	4H	19.0	19.8	19.6	20.4	21.1	24.4	25.1	25.0	25.7
	6H	19.5	20.2	20.2	20.8	21.5	22.0	22.8	22.6	23.4
	8H	19.7	20.3	20.3	20.9	21.6	23.4	24.1	24.0	24.7
	12H	19.8	20.3	20.4	20.9	21.7	24.1	24.8	24.8	25.4
							25.0	25.6	25.7	26.2

12H	4H	19.2	19.9	19.8	20.5	21.2	25.4	26.2	26.9	27.6
	6H	19.8	20.4	20.4	21.0	21.7	22.0	22.7	22.6	23.3
	8H	20.0	20.5	20.6	21.2	21.9	23.4	24.0	24.1	24.6
							24.2	24.8	24.9	25.4

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 2086.422 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.)