



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 MD UV FA 950.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 MD UV FA 950

[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 CL116-5000K-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 840mA

[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	6537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	42.6
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	10102	9457	9720
55	9028	8502	9012
65	7766	7457	8282
75	6066	6319	7527
85	3028	5197	6913

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	746.89	N.A.	11.40
0-30	1576.37	N.A.	24.10
0-40	2562.7	N.A.	39.20
0-60	4489.5	N.A.	68.70
0-80	5711.74	N.A.	87.40
0-90	5977.01	N.A.	91.40
10-90	5783.02	N.A.	88.50
20-40	1815.81	N.A.	27.80
20-50	2826.77	N.A.	43.20
40-70	2656.3	N.A.	40.60
60-80	1222.24	N.A.	18.70
70-80	492.73	N.A.	7.50
80-90	265.27	N.A.	4.10
90-110	266.99	N.A.	4.10
90-120	362.09	N.A.	5.50
90-130	437.34	N.A.	6.70
90-150	528.70	N.A.	8.10
90-180	560.35	N.A.	8.60
110-180	293.36	N.A.	4.50
0-180	6537.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.99
10-20	552.90
20-30	829.48
30-40	986.33
40-50	1010.96
50-60	915.84
60-70	729.51
70-80	492.73
80-90	265.27
90-100	149.37
100-110	117.62
110-120	95.10
120-130	75.25
130-140	55.32
140-150	36.03
150-160	20.08
160-170	9.15
170-180	2.43

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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	17.6	19.1	18.1	19.6	20.1	19.9	21.3	20.4	21.8	22.4
	3H	19.0	20.3	19.5	20.8	21.4	22.2	23.5	22.7	24.0	24.6
	4H	19.4	20.7	20.0	21.2	21.8	23.2	24.5	23.7	25.0	25.6
	6H	19.7	20.9	20.3	21.4	22.0	24.3	25.4	24.8	26.0	26.6
	8H	19.8	20.9	20.3	21.4	22.0	24.8	25.9	25.3	26.4	27.0
	12H	19.8	20.8	20.3	21.4	22.0	25.3	26.4	25.9	26.9	27.6

UGR Viewed Endwise

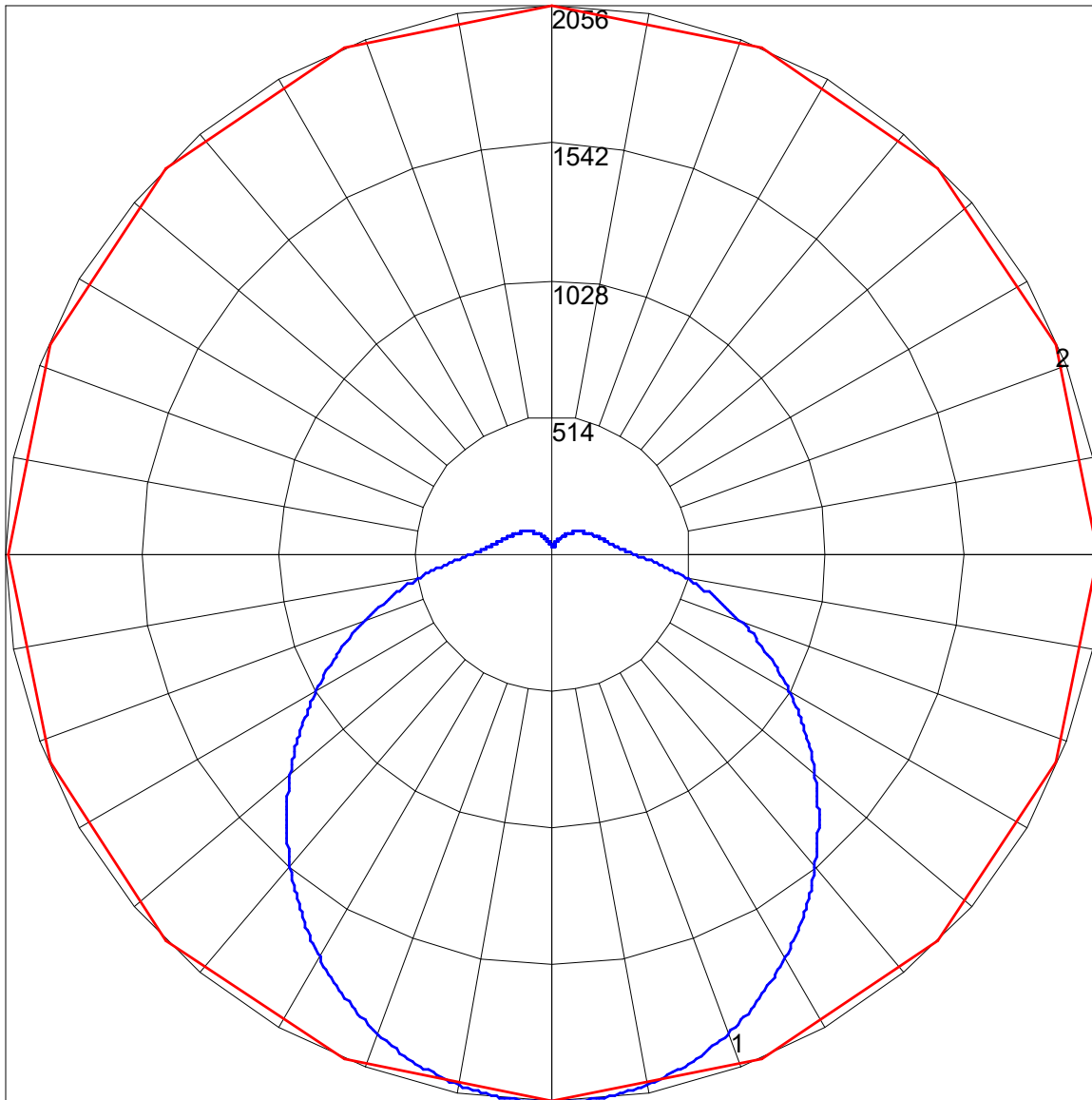
4H	2H	18.5	19.7	19.0	20.2	20.8	20.3	21.5	20.8	22.0	22.6
	3H	20.1	21.2	20.7	21.7	22.3	22.8	23.8	23.3	24.4	25.0
	4H	20.7	21.6	21.2	22.2	22.8	24.0	25.0	24.6	25.5	26.2
	6H	21.0	21.9	21.6	22.5	23.1	25.2	26.1	25.8	26.7	27.3
	8H	21.1	21.9	21.7	22.5	23.2	25.8	26.6	26.4	27.2	27.9
	12H	21.1	21.9	21.8	22.5	23.2	26.5	27.2	27.1	27.8	28.5

8H	4H	21.3	22.1	21.9	22.7	23.3	24.2	25.0	24.8	25.6	26.2
	6H	21.8	22.5	22.4	23.1	23.8	25.6	26.2	26.2	26.9	27.6
	8H	21.9	22.5	22.6	23.2	23.9	26.3	26.9	26.9	27.6	28.2
	12H	22.0	22.6	22.7	23.2	24.0	27.1	27.7	27.8	28.3	29.1

12H	4H	21.4	22.2	22.0	22.8	23.5	24.2	24.9	24.8	25.5	26.2
	6H	22.0	22.6	22.7	23.3	24.0	25.6	26.2	26.2	26.8	27.6
	8H	22.3	22.8	22.9	23.4	24.2	26.4	26.9	27.0	27.6	28.3

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 2056.432 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.)