



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 VH UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 8 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] Four CL116-4000K-R90-A6 CREE G CLASS PRO 9 64UP LED boards with 64 LEDs each.

[BALLAST] Two Keystone Technologies KTLD-50-UV-P1400-55-VDIM-LT1 LED drivers set at 1,110mA

[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	17319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	111.7
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	13571	12633	12876
55	12199	11390	11938
65	10595	10029	10971
75	8445	8554	9970
85	4577	7131	9157

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1978.72	N.A.	11.40
0-30	4176.25	N.A.	24.10
0-40	6789.32	N.A.	39.20
0-60	11893.94	N.A.	68.70
0-80	15132.00	N.A.	87.40
0-90	15834.78	N.A.	91.40
10-90	15320.85	N.A.	88.50
20-40	4810.6	N.A.	27.80
20-50	7488.91	N.A.	43.20
40-70	7037.29	N.A.	40.60
60-80	3238.06	N.A.	18.70
70-80	1305.39	N.A.	7.50
80-90	702.77	N.A.	4.10
90-110	707.34	N.A.	4.10
90-120	959.29	N.A.	5.50
90-130	1158.64	N.A.	6.70
90-150	1400.67	N.A.	8.10
90-180	1484.52	N.A.	8.60
110-180	777.18	N.A.	4.50
0-180	17319.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	513.93
10-20	1464.79
20-30	2197.53
30-40	2613.07
40-50	2678.31
50-60	2426.31
60-70	1932.67
70-80	1305.39
80-90	702.77
90-100	395.72
100-110	311.61
110-120	251.95
120-130	199.35
130-140	146.57
140-150	95.46
150-160	53.19
160-170	24.23
170-180	6.43

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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	18.6	20.1	19.1	20.6	21.1	20.9	22.4	21.4	22.9	23.4
	3H	20.0	21.3	20.5	21.9	22.4	23.2	24.6	23.8	25.1	25.6
	4H	20.5	21.7	21.0	22.2	22.8	24.3	25.6	24.8	26.1	26.7
	6H	20.7	21.9	21.3	22.4	23.0	25.4	26.5	25.9	27.1	27.7
	8H	20.8	21.9	21.3	22.4	23.0	25.9	27.0	26.5	27.6	28.2
	12H	20.8	21.8	21.3	22.4	23.0	26.5	27.6	27.0	28.1	28.7

UGR Viewed Endwise

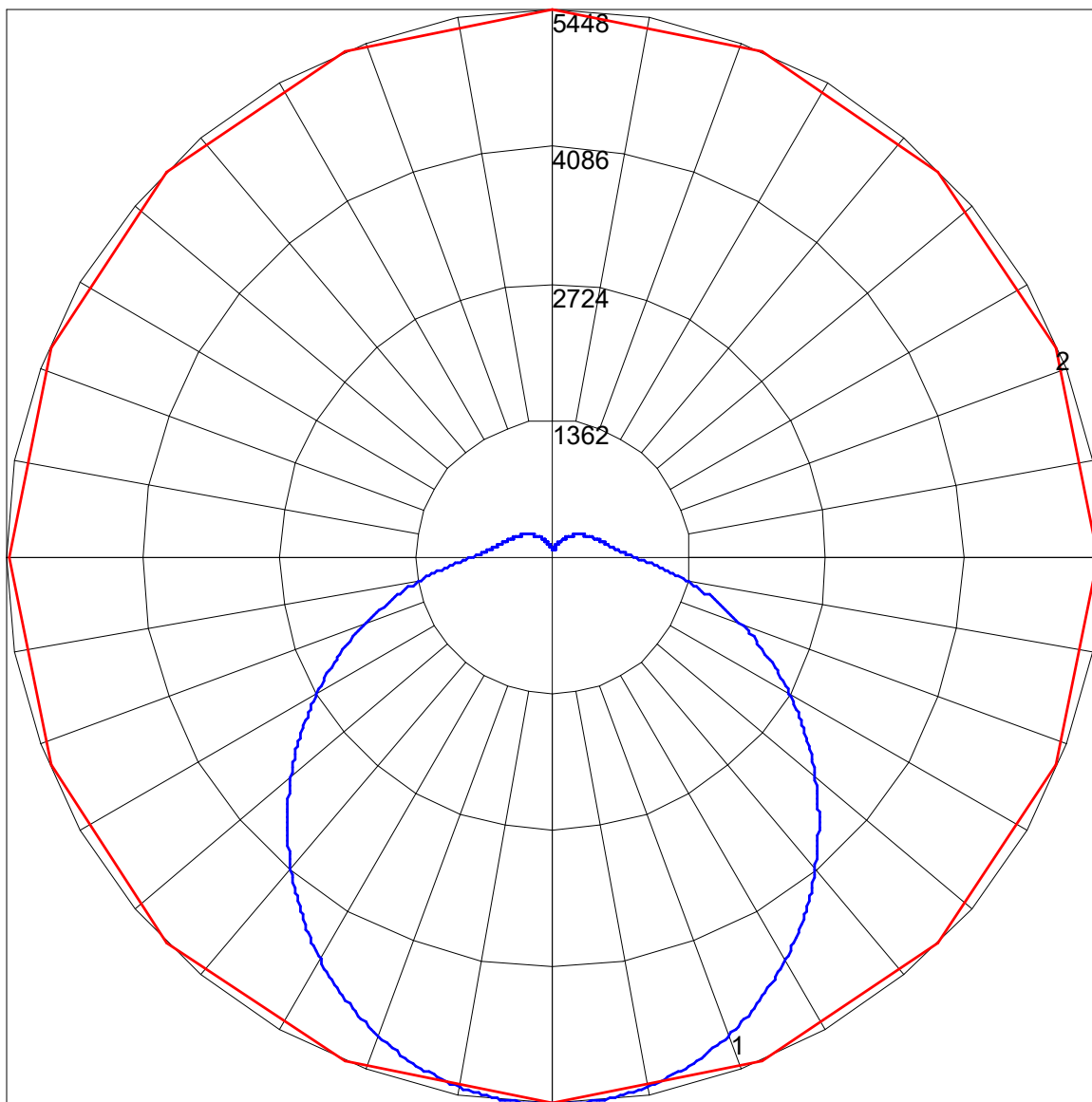
4H	2H	19.5	20.7	20.0	21.3	21.8	21.3	22.6	21.8	23.1	23.7
	3H	21.1	22.2	21.7	22.8	23.4	23.9	24.9	24.4	25.5	26.1
	4H	21.7	22.6	22.2	23.2	23.9	25.1	26.1	25.7	26.6	27.3
	6H	22.0	22.9	22.6	23.5	24.1	26.3	27.2	26.9	27.8	28.5
	8H	22.1	22.9	22.7	23.5	24.2	27.0	27.8	27.6	28.4	29.0
	12H	22.2	22.9	22.8	23.5	24.2	27.7	28.4	28.3	29.0	29.7

8H	4H	22.3	23.1	22.9	23.7	24.4	25.3	26.1	25.9	26.7	27.3
	6H	22.8	23.5	23.5	24.1	24.8	26.7	27.4	27.3	28.0	28.7
	8H	23.0	23.6	23.6	24.2	24.9	27.4	28.1	28.1	28.7	29.4
	12H	23.1	23.6	23.7	24.2	25.0	28.3	28.9	29.0	29.5	30.2

12H	4H	22.5	23.2	23.1	23.8	24.5	25.3	26.0	25.9	26.6	27.3
	6H	23.1	23.7	23.7	24.3	25.0	26.7	27.3	27.4	27.9	28.7
	8H	23.3	23.8	23.9	24.5	25.2	27.5	28.1	28.2	28.7	29.5

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 5448.064 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.)