



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL100 UV FR 930 @1800MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 8 SEL100 UV FR 930

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3000K

[BALLAST] One KTLD-100-UV-PS1800-54-VDIM-LM2 LED driver set to 1800mA

[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	13314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	90.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14133	13567	13488
55	12359	12334	12388
65	9987	10814	10936
75	7333	9286	9258
85	4427	8744	8121

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Zone	Lumens	%Lamp	%Fixt
0-20	1655.34	N.A.	12.40
0-30	3520.24	N.A.	26.40
0-40	5764.03	N.A.	43.30
0-60	10103.97	N.A.	75.90
0-80	12595.18	N.A.	94.60
0-90	13076.63	N.A.	98.20
10-90	12649.18	N.A.	95.00
20-40	4108.7	N.A.	30.90
20-50	6411.00	N.A.	48.20
40-70	5873.97	N.A.	44.10
60-80	2491.22	N.A.	18.70
70-80	957.18	N.A.	7.20
80-90	481.45	N.A.	3.60
90-110	237.33	N.A.	1.80
90-120	237.81	N.A.	1.80
90-130	237.81	N.A.	1.80
90-150	237.81	N.A.	1.80
90-180	237.81	N.A.	1.80
110-180	0.48	N.A.	0.00
0-180	13314.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	427.45
10-20	1227.89
20-30	1864.91
30-40	2243.79
40-50	2302.3
50-60	2037.63
60-70	1534.04
70-80	957.18
80-90	481.45
90-100	192.99
100-110	44.34
110-120	0.48
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	60	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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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

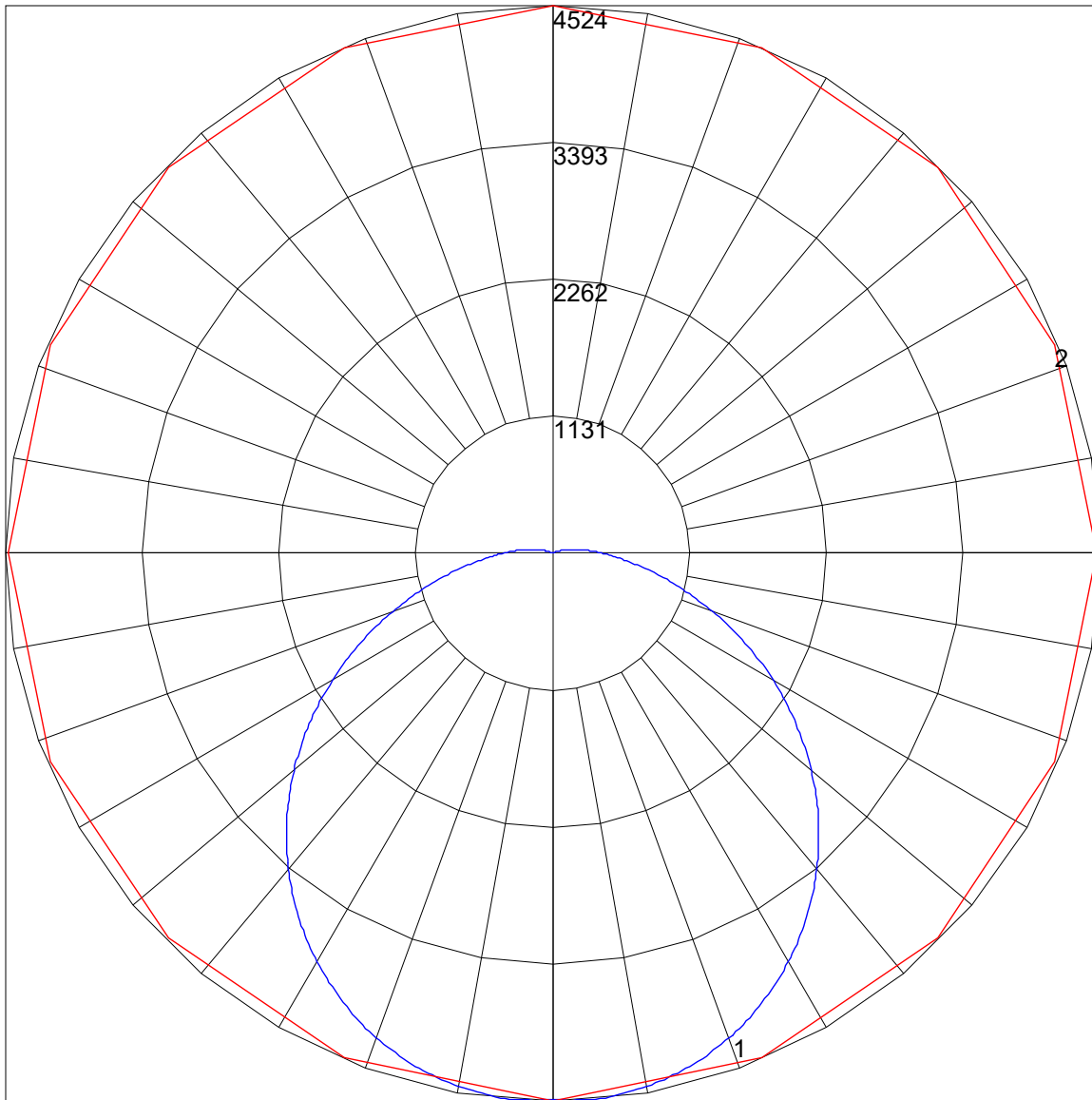
X=2H	Y=2H	19.6	21.2	20.0	21.6	21.9	21.3	22.9	21.7	23.3	23.6
	3H	20.9	22.4	21.3	22.7	23.1	23.3	24.8	23.7	25.1	25.5
	4H	21.3	22.7	21.7	23.1	23.5	24.1	25.5	24.6	25.9	26.3
	6H	21.5	22.8	22.0	23.2	23.7	24.9	26.2	25.4	26.6	27.1
	8H	21.6	22.8	22.0	23.2	23.7	25.3	26.6	25.8	27.0	27.4
	12H	21.6	22.8	22.1	23.2	23.7	25.7	26.9	26.2	27.3	27.8

UGR Viewed Endwise

4H	2H	20.4	21.8	20.9	22.2	22.6	21.8	23.2	22.2	23.5	24.0
	3H	22.0	23.2	22.4	23.6	24.0	24.0	25.2	24.4	25.6	26.0
	4H	22.5	23.6	23.0	24.0	24.5	25.0	26.1	25.5	26.5	27.0
	6H	22.9	23.8	23.3	24.3	24.8	26.0	26.9	26.5	27.4	27.9
	8H	22.9	23.8	23.4	24.3	24.8	26.4	27.3	26.9	27.8	28.3
	12H	23.0	23.8	23.5	24.3	24.8	27.0	27.7	27.5	28.3	28.8
8H	4H	23.1	23.9	23.6	24.4	24.9	25.2	26.1	25.7	26.6	27.1
	6H	23.6	24.3	24.1	24.8	25.4	26.4	27.1	26.9	27.6	28.2
	8H	23.8	24.4	24.3	25.0	25.5	27.0	27.6	27.5	28.2	28.7
	12H	23.9	24.5	24.4	25.0	25.6	27.6	28.2	28.2	28.7	29.3
12H	4H	23.2	24.0	23.7	24.5	25.0	25.2	26.0	25.8	26.6	27.1
	6H	23.8	24.5	24.4	25.0	25.6	26.5	27.1	27.0	27.6	28.2
	8H	24.1	24.6	24.6	25.2	25.8	27.1	27.7	27.6	28.2	28.8

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 4524.496 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)