



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL45 UV 940 @750MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL45 UV 940

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

[MORE] no enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 750mA

[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	6082
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14456	13971	13882
55	14210	13554	13180
65	13429	12332	11883
75	11440	9675	9058
85	6425	4344	3905

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	743.80	N.A.	12.20
0-30	1592.86	N.A.	26.20
0-40	2637.15	N.A.	43.40
0-60	4771.33	N.A.	78.50
0-80	5983.47	N.A.	98.40
0-90	6081.19	N.A.	100.00
10-90	5889.7	N.A.	96.80
20-40	1893.35	N.A.	31.10
20-50	3003.3	N.A.	49.40
40-70	2917.87	N.A.	48.00
60-80	1212.14	N.A.	19.90
70-80	428.46	N.A.	7.00
80-90	97.71	N.A.	1.60
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6081.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.49
10-20	552.32
20-30	849.05
30-40	1044.29
40-50	1109.95
50-60	1024.23
60-70	783.69
70-80	428.46
80-90	97.71
90-100	0.53
100-110	0.00
110-120	0.00
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	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	36	30	25	23

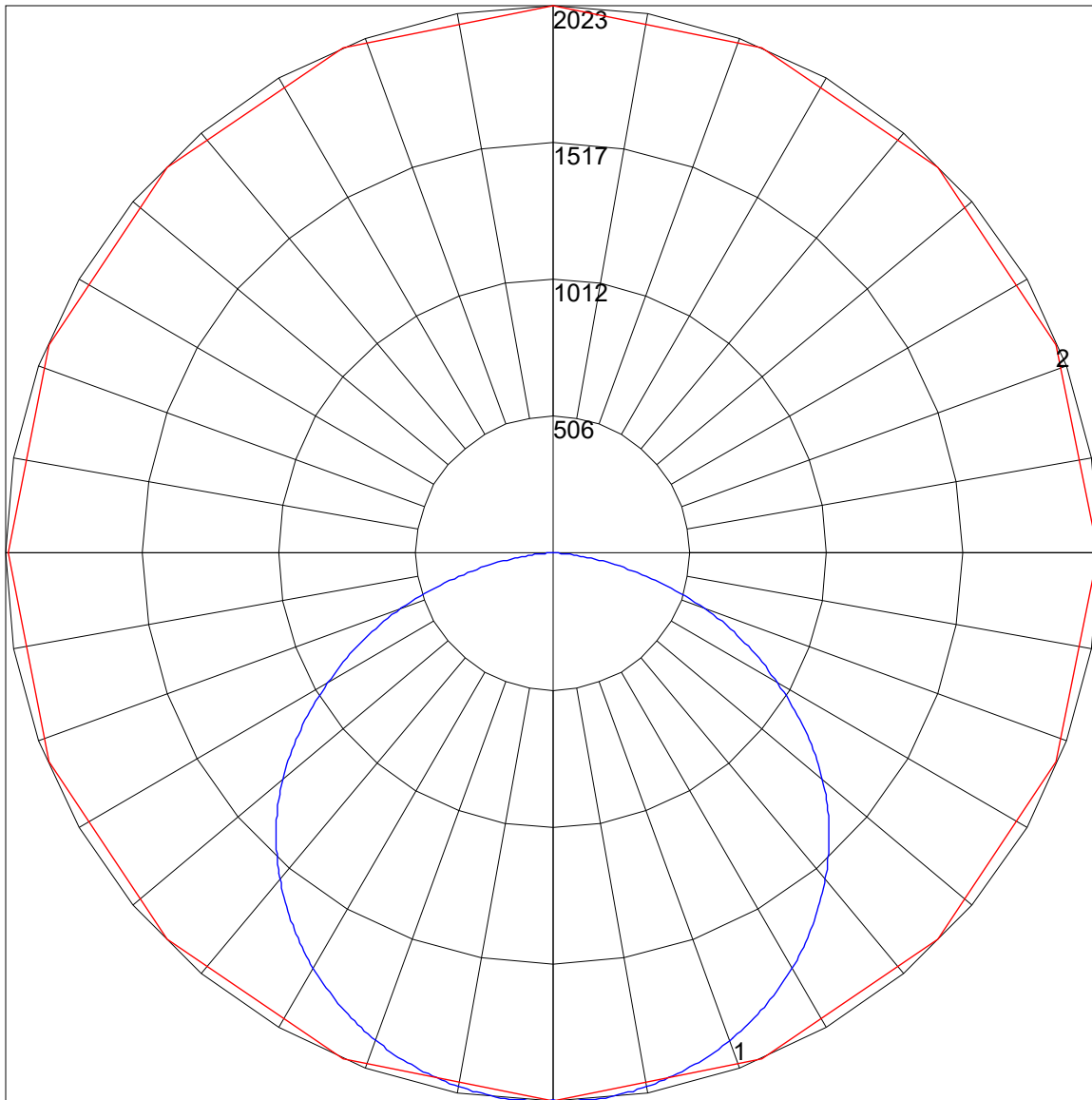
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	21.3	23.0	21.7	23.3	23.6	21.4	23.1	21.8	23.4	23.7
	3H	23.1	24.6	23.5	24.9	25.3	23.2	24.7	23.6	25.1	25.4
	4H	23.7	25.1	24.1	25.5	25.8	23.8	25.2	24.2	25.6	26.0
	6H	24.1	25.4	24.5	25.8	26.2	24.2	25.5	24.6	25.9	26.3
	8H	24.2	25.4	24.6	25.8	26.2	24.3	25.6	24.7	25.9	26.3
	12H	24.2	25.4	24.6	25.8	26.2	24.3	25.6	24.8	25.9	26.4
4H	2H	22.0	23.4	22.4	23.7	24.1	22.1	23.5	22.5	23.8	24.2
	3H	23.9	25.1	24.3	25.5	25.9	24.0	25.2	24.4	25.6	26.0
	4H	24.7	25.7	25.1	26.1	26.6	24.7	25.8	25.1	26.2	26.6
	6H	25.2	26.1	25.6	26.5	27.0	25.2	26.1	25.7	26.6	27.0
	8H	25.3	26.2	25.7	26.6	27.1	25.3	26.2	25.8	26.7	27.1
	12H	25.3	26.1	25.8	26.6	27.1	25.4	26.2	25.9	26.7	27.2
8H	4H	24.9	25.8	25.4	26.2	26.7	25.0	25.9	25.4	26.3	26.8
	6H	25.5	26.2	26.0	26.7	27.2	25.5	26.3	26.0	26.8	27.2
	8H	25.6	26.3	26.2	26.8	27.3	25.7	26.4	26.2	26.9	27.4
	12H	25.8	26.3	26.3	26.8	27.4	25.8	26.4	26.3	26.9	27.5
12H	4H	24.9	25.7	25.4	26.2	26.7	25.0	25.8	25.5	26.3	26.7
	6H	25.5	26.2	26.0	26.6	27.2	25.6	26.2	26.1	26.7	27.2
	8H	25.7	26.3	26.2	26.8	27.4	25.8	26.4	26.3	26.9	27.4

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 2023.269 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)