



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL45 UV FA 930 @700MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFL G2 2R 24 SEL45 UV FA 930

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,

[MORE] two frosted linear ribbed plastic enclosures.

[LAMPCAT] Four LS3873A7_3000_90R 3000K 48 LED boards

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 700mA

[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	5108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	33.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.85 ft
Luminous Width (90-270)	1.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2364	2514	2647
55	2189	2413	2606
65	1979	2288	2535
75	1660	2056	2271
85	1049	1157	863

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	669.82	N.A.	13.10
0-30	1414.14	N.A.	27.70
0-40	2300.4	N.A.	45.00
0-60	4028.94	N.A.	78.90
0-80	5026.26	N.A.	98.40
0-90	5108.07	N.A.	100.00
10-90	4934.08	N.A.	96.60
20-40	1630.58	N.A.	31.90
20-50	2539.91	N.A.	49.70
40-70	2359.56	N.A.	46.20
60-80	997.32	N.A.	19.50
70-80	366.29	N.A.	7.20
80-90	81.81	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5108.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.99
10-20	495.83
20-30	744.32
30-40	886.26
40-50	909.33
50-60	819.21
60-70	631.02
70-80	366.29
80-90	81.81
90-100	0.00
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	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

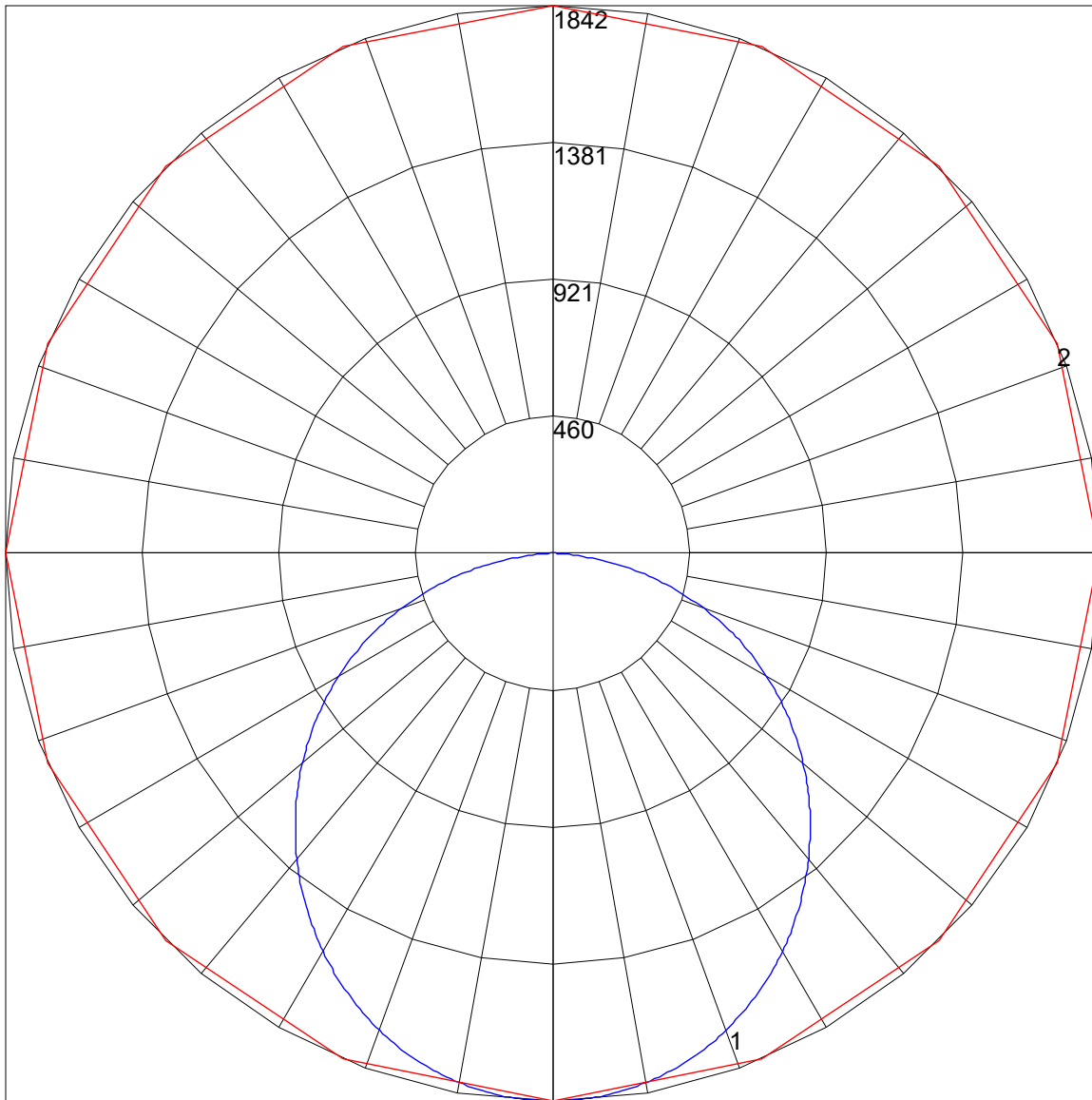
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UGR TABLE - CORRECTED

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	14.7	16.3	15.1	16.7	17.0	15.7	17.3	16.1	17.6	18.0
	3H	16.4	17.9	16.8	18.2	18.6	17.7	19.2	18.0	19.5	19.8
	4H	17.1	18.4	17.5	18.8	19.2	18.4	19.8	18.8	20.2	20.5
	6H	17.5	18.8	17.9	19.1	19.5	18.9	20.2	19.3	20.6	21.0
	8H	17.6	18.8	18.0	19.2	19.6	19.0	20.3	19.4	20.7	21.1
	12H	17.6	18.8	18.1	19.2	19.6	19.1	20.2	19.5	20.6	21.1
4H	2H	15.5	16.9	15.9	17.2	17.6	16.3	17.7	16.7	18.0	18.4
	3H	17.4	18.6	17.9	19.0	19.4	18.5	19.6	18.9	20.0	20.4
	4H	18.2	19.2	18.6	19.7	20.1	19.3	20.4	19.8	20.8	21.3
	6H	18.7	19.7	19.2	20.1	20.6	20.0	20.9	20.4	21.4	21.8
	8H	18.9	19.8	19.3	20.2	20.7	20.1	21.0	20.6	21.5	21.9
	12H	19.0	19.8	19.4	20.2	20.7	20.2	21.0	20.7	21.5	21.9
8H	4H	18.6	19.5	19.0	19.9	20.4	19.6	20.5	20.1	20.9	21.4
	6H	19.3	20.0	19.8	20.5	20.9	20.4	21.1	20.9	21.6	22.1
	8H	19.5	20.1	20.0	20.6	21.1	20.6	21.2	21.1	21.7	22.2
	12H	19.6	20.2	20.1	20.7	21.3	20.7	21.2	21.2	21.7	22.3
12H	4H	18.6	19.4	19.1	19.9	20.4	19.6	20.4	20.1	20.9	21.4
	6H	19.4	20.0	19.9	20.5	21.0	20.4	21.1	20.9	21.5	22.1
	8H	19.6	20.2	20.1	20.7	21.2	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1841.94 Located At Horizontal Angle = 67.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)