



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL15 UV FA 940 @230MA.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 SEL15 UV FA 940

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,
[MORE] two frosted linear ribbed plastic enclosures.

[LAMPCAT] Four LS3873A7_4000_90R 4000K 48 LED boards

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 230mA

[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	1704
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	11.5
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	788	838	883
55	730	805	869
65	660	763	845
75	554	686	757
85	350	386	288

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.38	N.A.	13.10
0-30	471.61	N.A.	27.70
0-40	767.18	N.A.	45.00
0-60	1343.64	N.A.	78.90
0-80	1676.24	N.A.	98.40
0-90	1703.52	N.A.	100.00
10-90	1645.5	N.A.	96.60
20-40	543.79	N.A.	31.90
20-50	847.05	N.A.	49.70
40-70	786.91	N.A.	46.20
60-80	332.60	N.A.	19.50
70-80	122.16	N.A.	7.20
80-90	27.28	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	1703.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.02
10-20	165.36
20-30	248.23
30-40	295.56
40-50	303.26
50-60	273.21
60-70	210.44
70-80	122.16
80-90	27.28
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	79	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

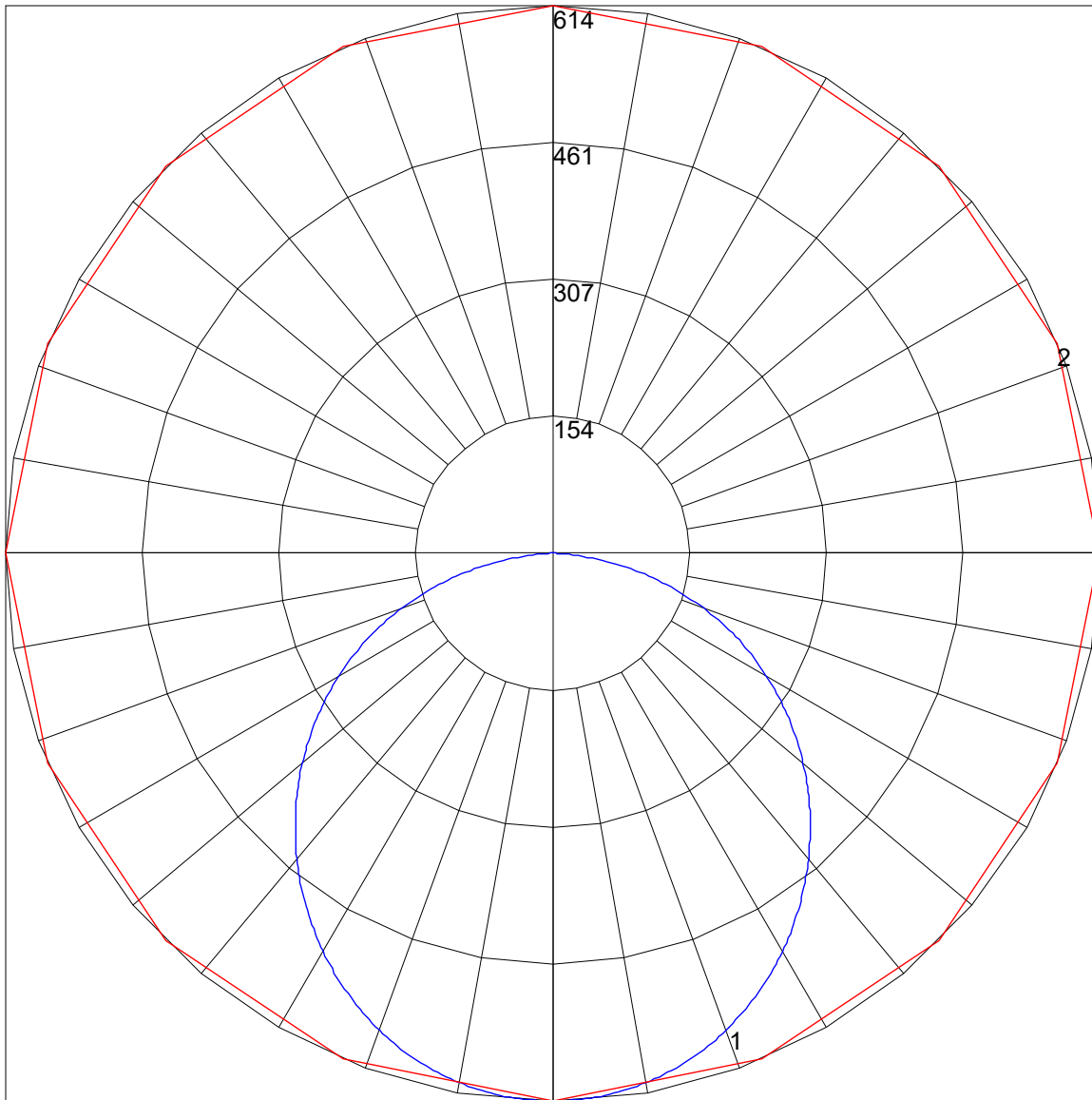
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UGR TABLE - CORRECTED

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	10.9	12.5	11.3	12.9	13.2	11.9	13.5	12.3	13.8	14.2
	3H	12.6	14.1	13.0	14.4	14.8	13.9	15.4	14.2	15.7	16.0
	4H	13.3	14.6	13.7	15.0	15.4	14.6	16.0	15.0	16.4	16.7
	6H	13.7	15.0	14.1	15.3	15.7	15.1	16.4	15.5	16.8	17.2
	8H	13.8	15.0	14.2	15.4	15.8	15.2	16.5	15.6	16.9	17.3
	12H	13.9	15.0	14.3	15.4	15.8	15.3	16.4	15.7	16.8	17.3
4H	2H	11.7	13.1	12.1	13.4	13.8	12.5	13.9	12.9	14.2	14.6
	3H	13.6	14.8	14.1	15.2	15.6	14.7	15.8	15.1	16.2	16.6
	4H	14.4	15.4	14.8	15.9	16.3	15.6	16.6	16.0	17.0	17.5
	6H	14.9	15.9	15.4	16.3	16.8	16.2	17.1	16.6	17.6	18.0
	8H	15.1	16.0	15.5	16.4	16.9	16.3	17.2	16.8	17.7	18.1
	12H	15.2	16.0	15.6	16.4	16.9	16.4	17.2	16.9	17.7	18.1
8H	4H	14.8	15.7	15.2	16.1	16.6	15.8	16.7	16.3	17.1	17.6
	6H	15.5	16.2	16.0	16.7	17.2	16.6	17.3	17.1	17.8	18.3
	8H	15.7	16.3	16.2	16.8	17.3	16.8	17.4	17.3	17.9	18.4
	12H	15.8	16.4	16.3	16.9	17.5	16.9	17.4	17.4	17.9	18.5
12H	4H	14.8	15.6	15.3	16.1	16.6	15.8	16.6	16.3	17.1	17.6
	6H	15.6	16.2	16.1	16.7	17.2	16.6	17.3	17.1	17.7	18.3
	8H	15.8	16.4	16.3	16.9	17.4	16.9	17.4	17.4	17.9	18.5

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 614.281 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.)