



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL35 UV FA 940 @650MA.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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED driver set to 650mA
[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	4873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	31
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	2256	2399	2525
55	2089	2302	2487
65	1888	2183	2418
75	1584	1962	2166
85	1001	1103	823

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	639.01	N.A.	13.10
0-30	1349.11	N.A.	27.70
0-40	2194.61	N.A.	45.00
0-60	3843.66	N.A.	78.90
0-80	4795.11	N.A.	98.40
0-90	4873.16	N.A.	100.00
10-90	4707.17	N.A.	96.60
20-40	1555.6	N.A.	31.90
20-50	2423.11	N.A.	49.70
40-70	2251.05	N.A.	46.20
60-80	951.45	N.A.	19.50
70-80	349.45	N.A.	7.20
80-90	78.05	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	4873.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.98
10-20	473.03
20-30	710.10
30-40	845.50
40-50	867.51
50-60	781.54
60-70	602.00
70-80	349.45
80-90	78.05
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

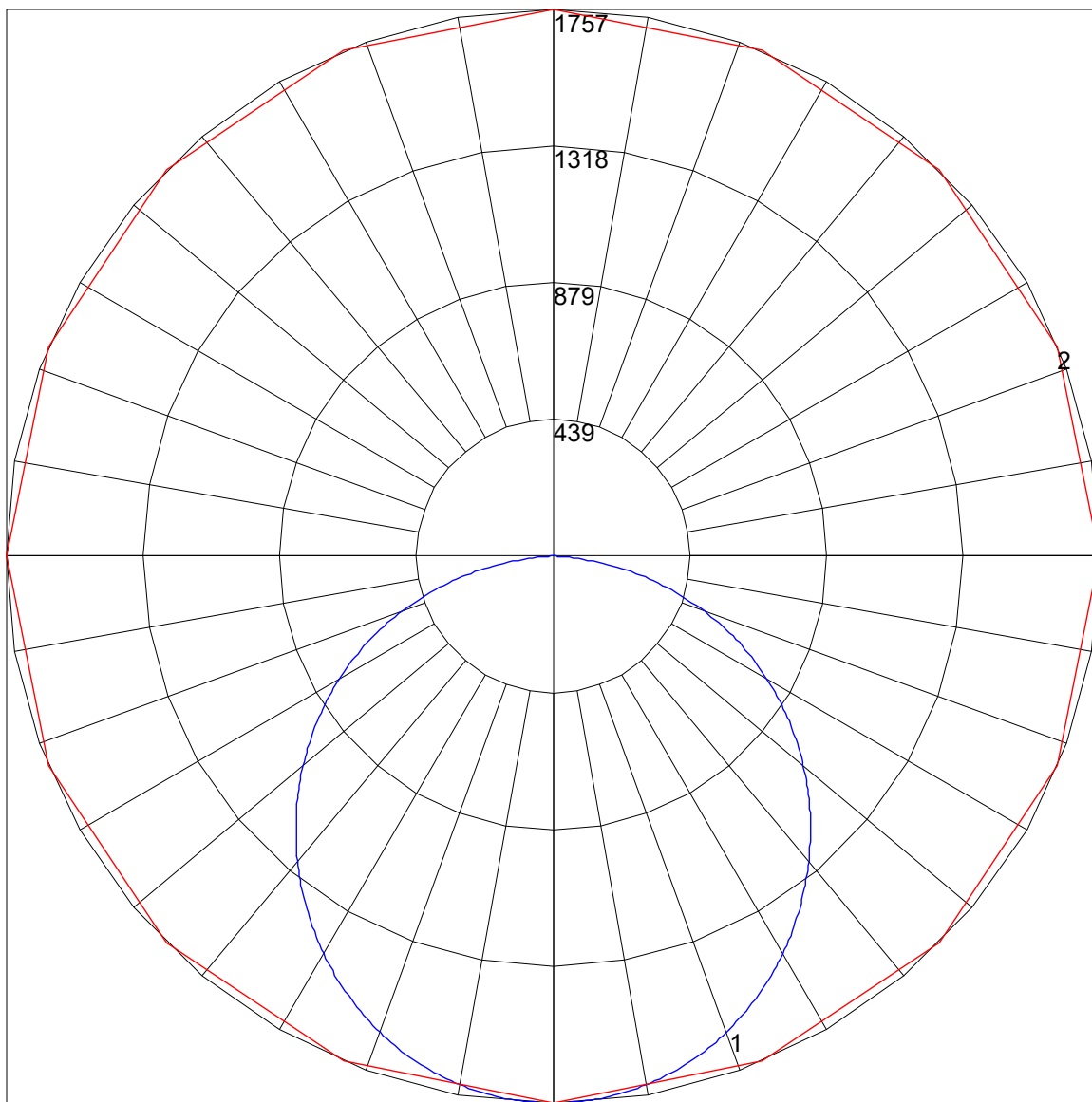
X=2H	Y=2H	14.5	16.1	14.9	16.5	16.8	15.5	17.1	15.9	17.4	17.8
	3H	16.2	17.7	16.6	18.0	18.4	17.5	19.0	17.8	19.3	19.6
	4H	16.9	18.2	17.3	18.6	19.0	18.2	19.6	18.6	20.0	20.3
	6H	17.3	18.6	17.7	18.9	19.3	18.7	20.0	19.1	20.4	20.8
	8H	17.4	18.6	17.8	19.0	19.4	18.8	20.1	19.2	20.5	20.9
	12H	17.4	18.6	17.9	19.0	19.4	18.9	20.0	19.3	20.4	20.9

UGR Viewed Endwise

4H	2H	15.3	16.7	15.7	17.0	17.4	16.1	17.5	16.5	17.8	18.2
	3H	17.2	18.4	17.7	18.8	19.2	18.3	19.4	18.7	19.8	20.2
	4H	18.0	19.0	18.4	19.5	19.9	19.1	20.2	19.6	20.6	21.1
	6H	18.5	19.5	19.0	19.9	20.3	19.8	20.7	20.2	21.2	21.6
	8H	18.7	19.5	19.1	20.0	20.5	19.9	20.8	20.4	21.3	21.7
	12H	18.8	19.6	19.2	20.0	20.5	20.0	20.8	20.5	21.3	21.7
8H	4H	18.4	19.3	18.8	19.7	20.2	19.4	20.3	19.9	20.7	21.2
	6H	19.1	19.8	19.6	20.3	20.7	20.2	20.9	20.7	21.4	21.9
	8H	19.3	19.9	19.8	20.4	20.9	20.4	21.0	20.9	21.5	22.0
	12H	19.4	20.0	19.9	20.5	21.1	20.5	21.0	21.0	21.5	22.1
12H	4H	18.4	19.2	18.9	19.7	20.2	19.4	20.2	19.9	20.7	21.2
	6H	19.2	19.8	19.7	20.3	20.8	20.2	20.9	20.7	21.3	21.9
	8H	19.4	20.0	19.9	20.5	21.0	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1757.233 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.)