IES INDOOR REPORT
PHOTOMETRIC FILENAME : FFR G2 24 SEL35 UV FA 930 @650MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLIA001588-007A (s)
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 6/4/2024
[MANUFAC] LumenFocus, LLC
[LUMCAT] FFR G2 24 SEL35 UV FA 930
[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x4-23-2 2x4 housing,
[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.
[LAMP] Two LS3873A7_3000_90R 3000K 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	4729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	31.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	1.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2245	2444	2638
55	2062	2385	2704
65	1847	2367	2868
75	1550	2429	3208
85	1046	2132	2212

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	595.87	N.A.	12.60
0-30	1257.62	N.A.	26.60
0-40	2046.37	N.A.	43.30
0-60	3607.35	N.A.	76.30
0-80	4611.61	N.A.	97.50
0-90	4728.56	N.A.	100.00
10-90	4573.75	N.A.	96.70
20-40	1450.5	N.A.	30.70
20-50	2264.54	N.A.	47.90
40-70	2164.83	N.A.	45.80
60-80	1004.26	N.A.	21.20
70-80	400.42	N.A.	8.50
80-90	116.95	N.A.	2.50
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	4728.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.82
10-20	441.05
20-30	661.76
30-40	788.75
40-50	814.04
50-60	746.95
60-70	603.85
70-80	400.42
80-90	116.95
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

Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	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	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	14.3	15.9	14.6	16.3	16.6	15.9	17.6	16.3	17.9	18.2
	3H	16.0	17.5	16.4	17.8	18.2	18.3	19.8	18.7	20.1	20.5
	4H	16.6	18.1	17.0	18.4	18.8	19.3	20.8	19.7	21.1	21.5
	6H	17.1	18.4	17.5	18.8	19.2	20.3	21.6	20.7	22.0	22.3
	8H	17.2	18.5	17.6	18.9	19.3	20.6	21.8	21.0	22.2	22.6
	12H	17.3	18.5	17.7	18.9	19.3	20.7	21.9	21.1	22.3	22.7
4H	2H	15.2	16.6	15.6	17.0	17.3	16.5	17.9	16.8	18.2	18.6
	3H	17.2	18.4	17.6	18.8	19.2	19.1	20.3	19.5	20.7	21.1
	4H	17.9	19.0	18.4	19.4	19.9	20.3	21.4	20.8	21.8	22.3
	6H	18.5	19.5	18.9	19.9	20.4	21.4	22.4	21.9	22.8	23.3
	8H	18.7	19.6	19.2	20.0	20.5	21.8	22.7	22.3	23.1	23.6
	12H	18.8	19.6	19.3	20.1	20.6	22.0	22.8	22.5	23.3	23.8
8H	4H	18.6	19.5	19.1	19.9	20.4	20.6	21.5	21.1	22.0	22.4
	6H	19.4	20.1	19.8	20.6	21.1	21.9	22.7	22.4	23.2	23.6
	8H	19.6	20.3	20.1	20.8	21.3	22.4	23.0	22.9	23.6	24.0
	12H	19.8	20.4	20.3	20.9	21.5	22.7	23.3	23.2	23.8	24.3
12H	4H	18.7	19.5	19.2	20.0	20.5	20.7	21.5	21.1	22.0	22.4
	6H	19.6	20.3	20.1	20.7	21.2	22.0	22.7	22.5	23.1	23.7
	8H	19.9	20.5	20.4	21.0	21.6	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.3

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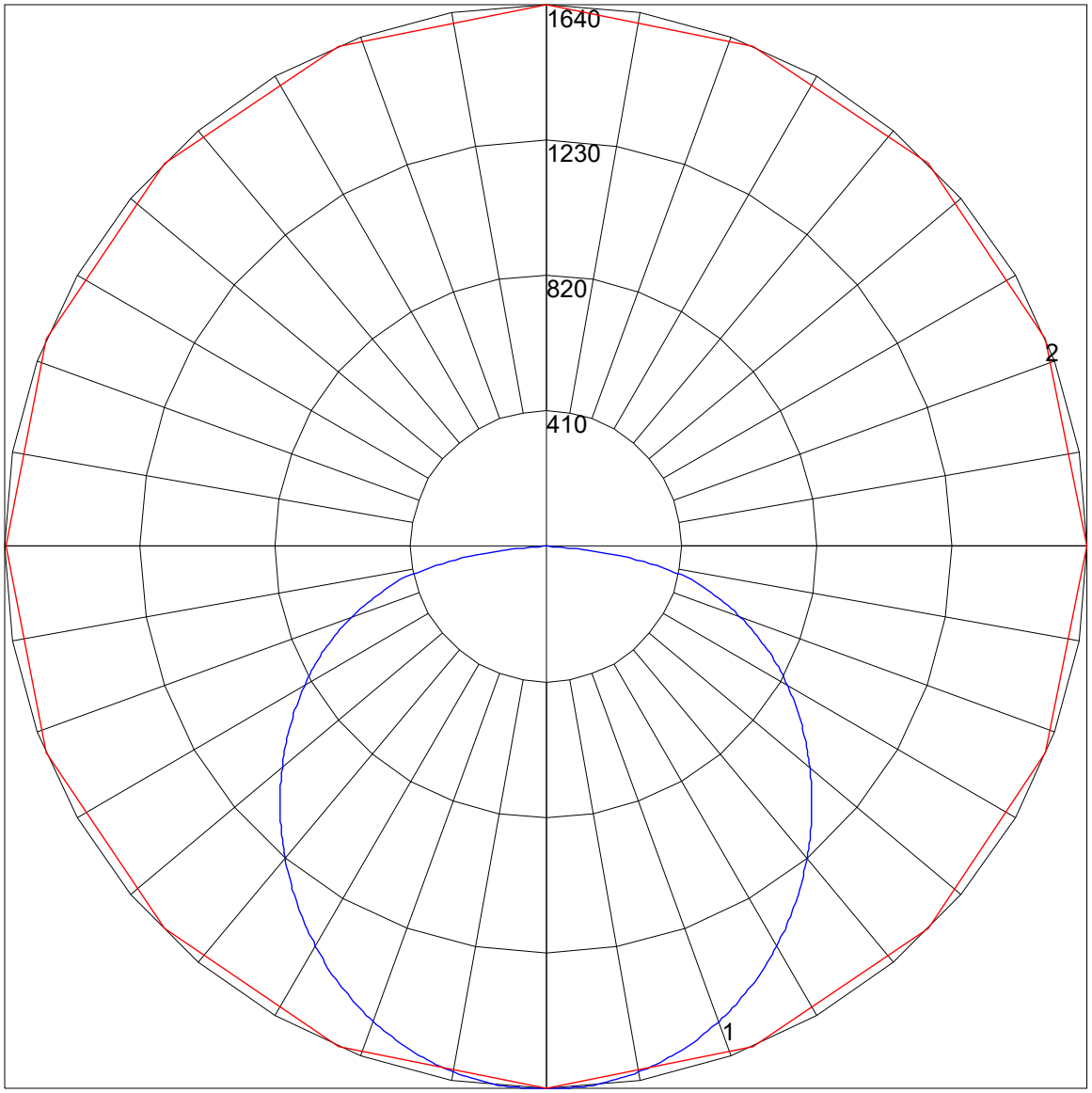
POLAR GRAPH



Maximum Candela = 1640.143 Located At Horizontal Angle = 90, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)