



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 SEL35 UV FA 935 @650MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-014 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 22 SEL35 UV FA 935

[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x2-20-2 2x2 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMPCAT] One LS3872A8_3500_90R 3500K 64 LED board

[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	4535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	32.8
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)	1.84 ft
Luminous Width (90-270)	1.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4124	4519	4925
55	3784	4394	5055
65	3387	4341	5388
75	2864	4394	6075
85	2063	3708	4155

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	575.60	N.A.	12.70
0-30	1212.88	N.A.	26.70
0-40	1970.61	N.A.	43.50
0-60	3466.27	N.A.	76.40
0-80	4425.57	N.A.	97.60
0-90	4535.3	N.A.	100.00
10-90	4385.57	N.A.	96.70
20-40	1395.02	N.A.	30.80
20-50	2175.55	N.A.	48.00
40-70	2072.93	N.A.	45.70
60-80	959.30	N.A.	21.20
70-80	382.02	N.A.	8.40
80-90	109.73	N.A.	2.40
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	4535.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.73
10-20	425.87
20-30	637.28
30-40	757.73
40-50	780.53
50-60	715.12
60-70	577.28
70-80	382.02
80-90	109.73
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
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	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

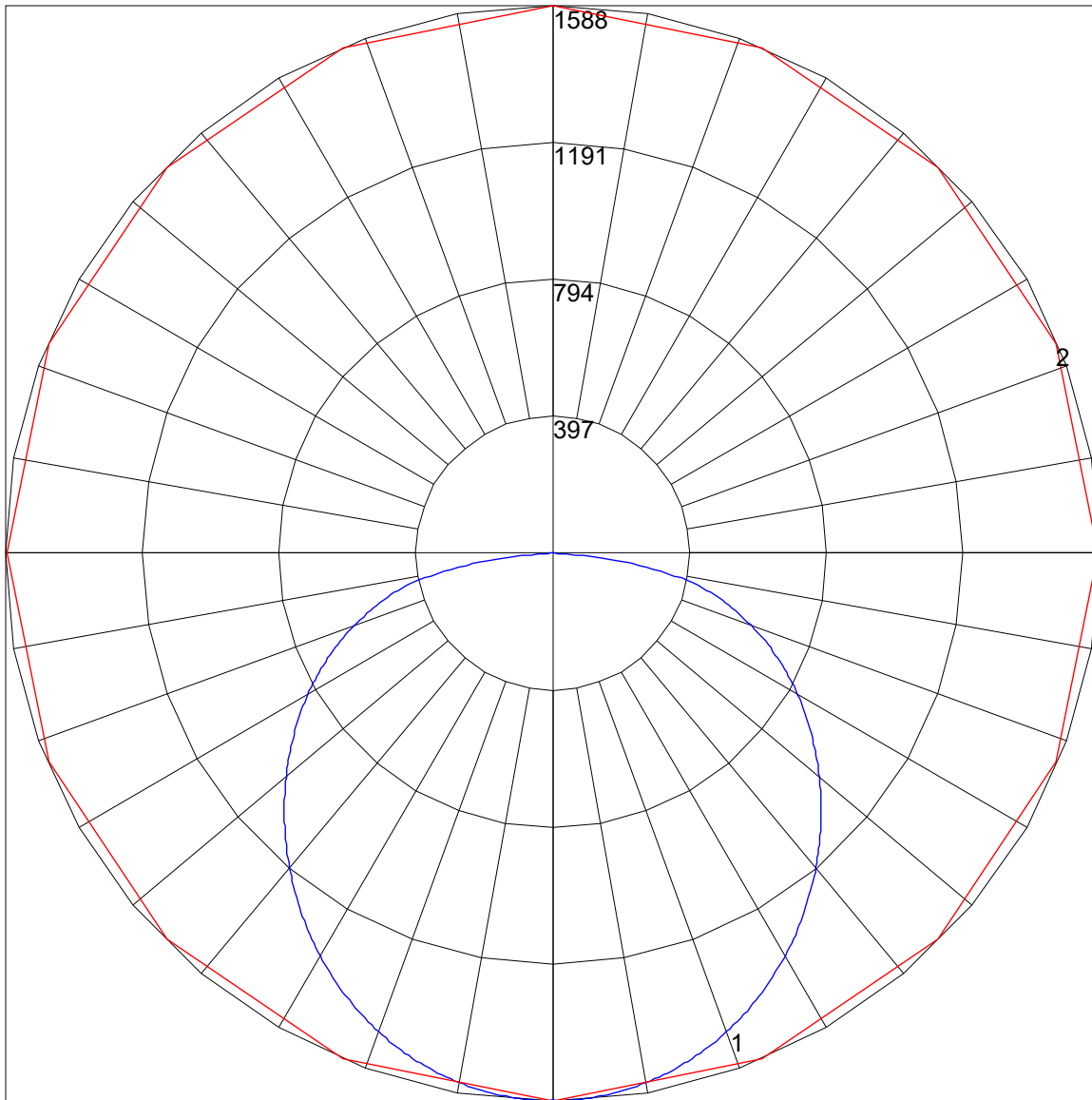
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UGR TABLE - CORRECTED

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	16.4	18.1	16.8	18.4	18.7	18.1	19.8	18.5	20.1	20.4
	3H	18.1	19.6	18.5	20.0	20.3	20.5	22.0	20.9	22.4	22.7
	4H	18.7	20.2	19.1	20.5	20.9	21.6	23.0	22.0	23.4	23.7
	6H	19.2	20.5	19.6	20.9	21.3	22.5	23.9	23.0	24.2	24.6
	8H	19.3	20.6	19.8	21.0	21.4	22.9	24.1	23.3	24.5	24.9
	12H	19.4	20.6	19.9	21.0	21.4	23.0	24.2	23.4	24.6	25.0
4H	2H	17.3	18.7	17.7	19.1	19.5	18.6	20.1	19.0	20.4	20.8
	3H	19.3	20.5	19.7	20.9	21.3	21.3	22.5	21.7	22.9	23.3
	4H	20.0	21.1	20.5	21.5	22.0	22.6	23.7	23.0	24.1	24.5
	6H	20.6	21.6	21.0	22.0	22.5	23.7	24.7	24.1	25.1	25.6
	8H	20.8	21.7	21.3	22.1	22.6	24.1	25.0	24.5	25.4	25.9
	12H	20.9	21.7	21.4	22.2	22.7	24.3	25.1	24.8	25.6	26.0
8H	4H	20.7	21.6	21.1	22.0	22.5	22.8	23.7	23.3	24.2	24.6
	6H	21.4	22.2	21.9	22.7	23.1	24.2	24.9	24.6	25.4	25.9
	8H	21.7	22.4	22.2	22.9	23.3	24.6	25.3	25.1	25.8	26.3
	12H	21.9	22.5	22.4	23.0	23.5	24.9	25.5	25.4	26.0	26.6
12H	4H	20.8	21.6	21.3	22.1	22.6	22.9	23.7	23.3	24.2	24.6
	6H	21.6	22.3	22.2	22.8	23.3	24.2	24.9	24.7	25.3	25.9
	8H	22.0	22.6	22.5	23.1	23.6	24.7	25.3	25.2	25.8	26.4

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 1587.548 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)