

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 VL UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 14 VL UV FA 940

[LUMINAIRE] Retrofit kit installed in an A.L.P. EF-1x4-2L-23GA 1x4 housing,

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

[LAMP] 96 white LEDs, two LS3873A7_4000_90R 4000K LED boards

[BALLAST] One ULT D700C20UNVPW-C LED driver programmed at 400mA

[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	2971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	21
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)	0.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3538	3798	4037
55	3270	3627	3833
65	2949	3294	3393
75	2477	2689	2550
85	1632	979	501

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.79	N.A.	13.50
0-30	843.79	N.A.	28.40
0-40	1372.23	N.A.	46.20
0-60	2394.01	N.A.	80.60
0-80	2935.56	N.A.	98.80
0-90	2970.93	N.A.	100.00
10-90	2867.06	N.A.	96.50
20-40	972.44	N.A.	32.70
20-50	1513.64	N.A.	50.90
40-70	1375.65	N.A.	46.30
60-80	541.55	N.A.	18.20
70-80	187.68	N.A.	6.30
80-90	35.37	N.A.	1.20
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	2970.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.87
10-20	295.92
20-30	444.01
30-40	528.44
40-50	541.20
50-60	480.58
60-70	353.88
70-80	187.68
80-90	35.37
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

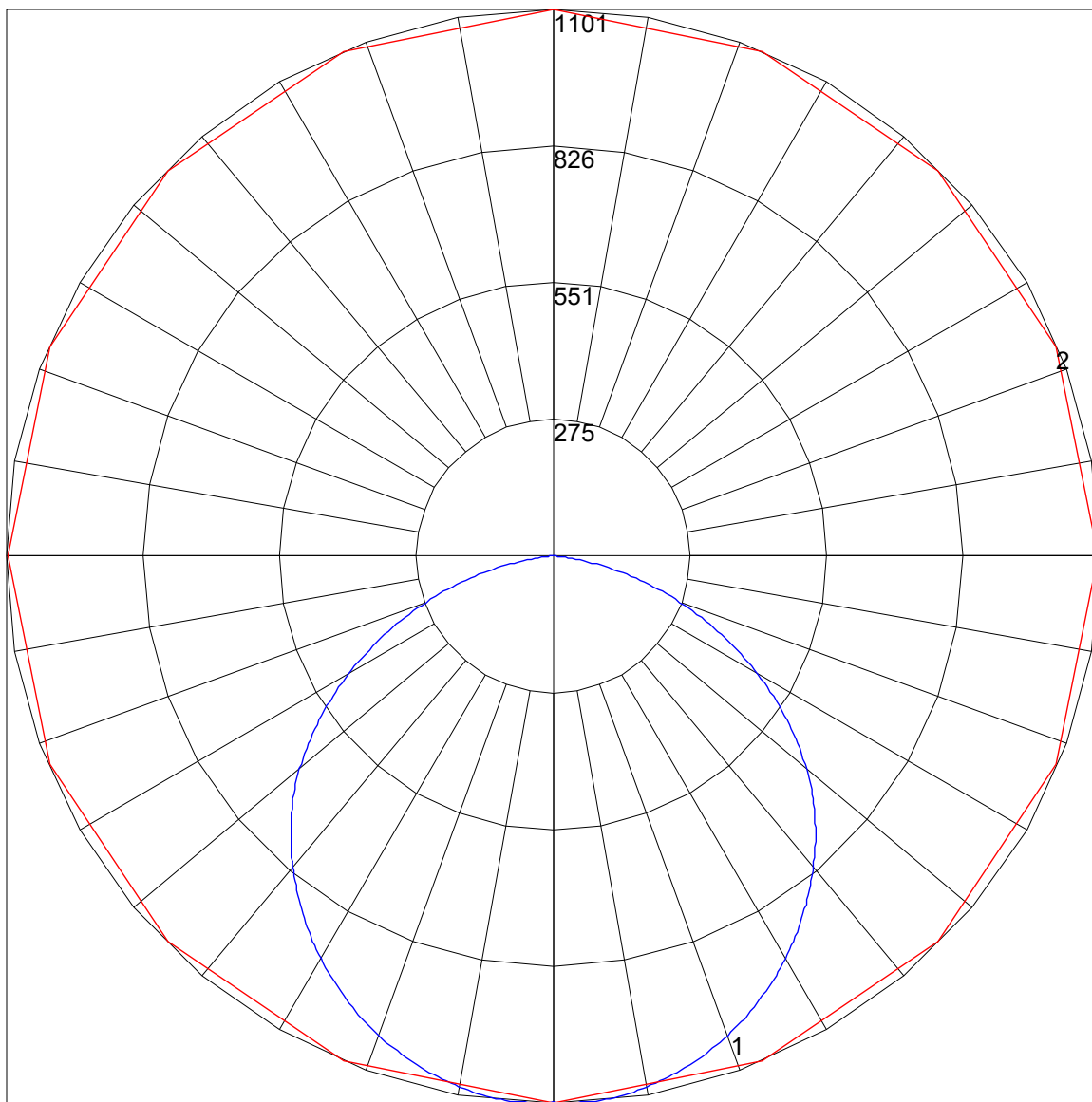
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UGR TABLE - CORRECTED

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	16.1	17.8	16.5	18.1	18.4	17.0	18.6	17.3	18.9	19.2
	3H	17.8	19.3	18.2	19.6	20.0	18.6	20.1	19.0	20.4	20.8
	4H	18.5	19.8	18.9	20.2	20.6	19.1	20.5	19.5	20.8	21.2
	6H	18.9	20.2	19.3	20.5	20.9	19.4	20.7	19.8	21.0	21.4
	8H	19.0	20.2	19.4	20.6	21.0	19.4	20.6	19.9	21.0	21.4
	12H	19.1	20.2	19.5	20.6	21.0	19.4	20.6	19.8	21.0	21.4
4H	2H	16.9	18.2	17.3	18.6	19.0	17.5	18.9	17.9	19.3	19.6
	3H	18.8	19.9	19.2	20.3	20.7	19.4	20.5	19.8	20.9	21.3
	4H	19.5	20.6	20.0	21.0	21.4	20.0	21.0	20.4	21.5	21.9
	6H	20.1	21.0	20.5	21.4	21.9	20.4	21.3	20.8	21.7	22.2
	8H	20.2	21.1	20.7	21.5	22.0	20.4	21.3	20.9	21.7	22.2
	12H	20.3	21.1	20.8	21.5	22.0	20.4	21.2	20.9	21.7	22.1
8H	4H	19.8	20.7	20.3	21.1	21.6	20.2	21.1	20.7	21.5	22.0
	6H	20.5	21.2	21.0	21.7	22.1	20.7	21.4	21.2	21.9	22.4
	8H	20.7	21.3	21.2	21.8	22.3	20.8	21.4	21.3	21.9	22.4
	12H	20.8	21.4	21.3	21.9	22.4	20.8	21.3	21.3	21.8	22.4
12H	4H	19.8	20.6	20.3	21.1	21.5	20.3	21.0	20.7	21.5	22.0
	6H	20.5	21.1	21.0	21.6	22.1	20.7	21.4	21.2	21.8	22.4
	8H	20.7	21.3	21.2	21.8	22.3	20.8	21.4	21.3	21.9	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1101.215 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)