



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 MD 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 MD 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 D10CC30UNVPW-C LED driver programmed at 660mA

[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	4878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	33.7
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	5809	6236	6628
55	5369	5956	6292
65	4841	5408	5571
75	4067	4416	4187
85	2680	1608	822

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	656.39	N.A.	13.50
0-30	1385.38	N.A.	28.40
0-40	2252.99	N.A.	46.20
0-60	3930.59	N.A.	80.60
0-80	4819.74	N.A.	98.80
0-90	4877.81	N.A.	100.00
10-90	4707.28	N.A.	96.50
20-40	1596.6	N.A.	32.70
20-50	2485.17	N.A.	50.90
40-70	2258.61	N.A.	46.30
60-80	889.15	N.A.	18.20
70-80	308.14	N.A.	6.30
80-90	58.07	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	4877.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.53
10-20	485.86
20-30	728.99
30-40	867.61
40-50	888.56
50-60	789.04
60-70	581.01
70-80	308.14
80-90	58.07
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

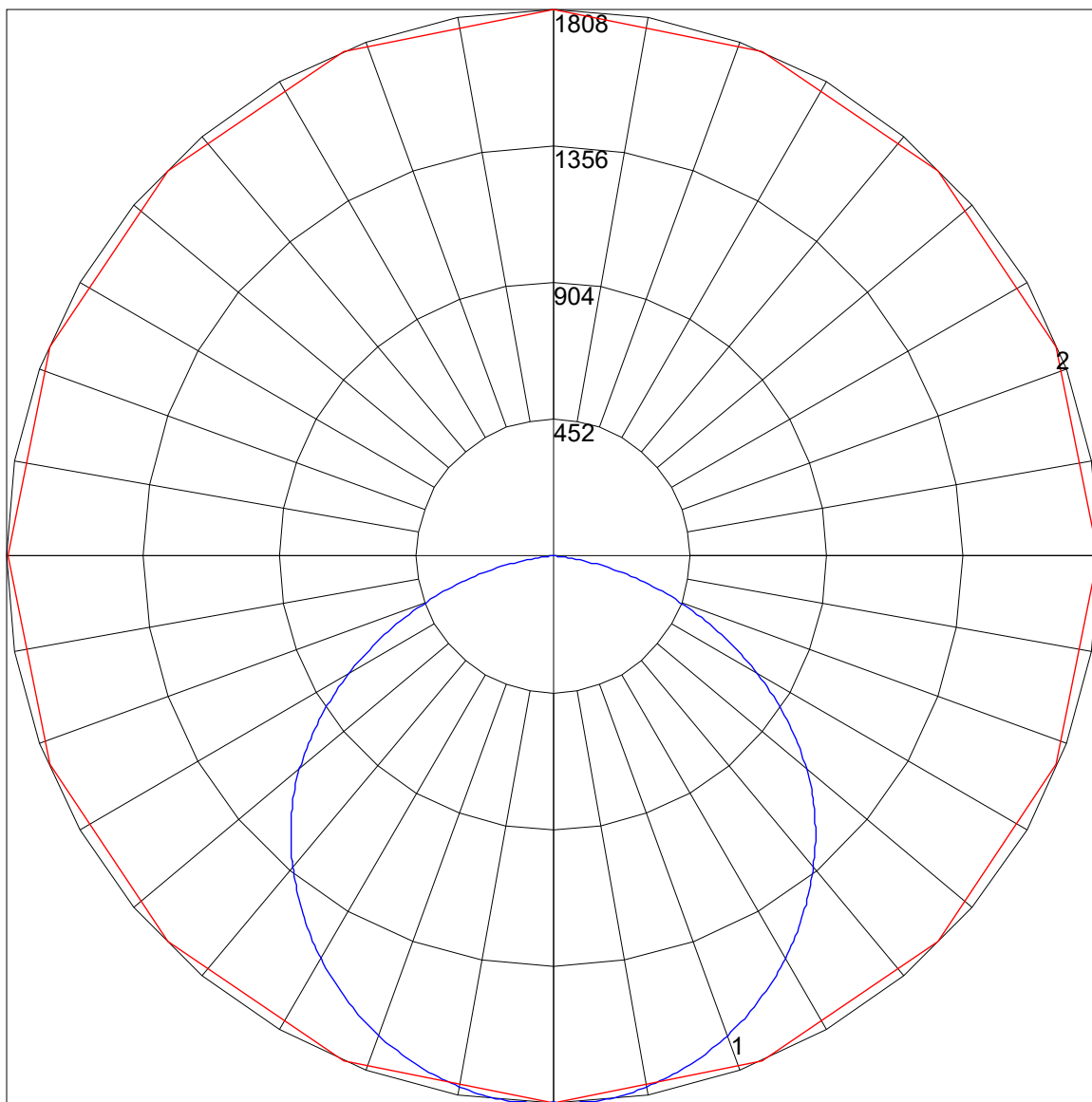
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UGR TABLE - CORRECTED

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	17.8	19.5	18.2	19.8	20.1	18.7	20.3	19.0	20.6	20.9
	3H	19.5	21.0	19.9	21.3	21.7	20.3	21.8	20.7	22.1	22.5
	4H	20.2	21.5	20.6	21.9	22.3	20.8	22.2	21.2	22.5	22.9
	6H	20.6	21.9	21.0	22.2	22.6	21.1	22.4	21.5	22.7	23.1
	8H	20.7	21.9	21.1	22.3	22.7	21.1	22.3	21.6	22.7	23.1
	12H	20.8	21.9	21.2	22.3	22.7	21.1	22.3	21.5	22.7	23.1
4H	2H	18.6	19.9	19.0	20.3	20.7	19.2	20.6	19.6	20.9	21.3
	3H	20.5	21.6	20.9	22.0	22.4	21.1	22.2	21.5	22.6	23.0
	4H	21.2	22.3	21.7	22.7	23.1	21.7	22.7	22.1	23.2	23.6
	6H	21.8	22.7	22.2	23.1	23.6	22.1	23.0	22.5	23.4	23.9
	8H	21.9	22.8	22.4	23.2	23.7	22.1	23.0	22.6	23.4	23.9
	12H	22.0	22.8	22.5	23.2	23.7	22.1	22.9	22.6	23.4	23.8
8H	4H	21.5	22.4	22.0	22.8	23.3	21.9	22.8	22.4	23.2	23.7
	6H	22.2	22.9	22.7	23.4	23.8	22.4	23.1	22.9	23.6	24.1
	8H	22.4	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.6	24.1
	12H	22.5	23.1	23.0	23.6	24.1	22.5	23.0	23.0	23.5	24.1
12H	4H	21.5	22.3	22.0	22.8	23.2	22.0	22.7	22.4	23.2	23.7
	6H	22.2	22.8	22.7	23.3	23.8	22.4	23.1	22.9	23.5	24.1
	8H	22.4	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1808.027 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.)