



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 MD UV FA 935.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-014 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 22 MD 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.

[LAMP] 84 white LEDs, one LS3872A10_3500_90R 3500K LED board

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 760mA

[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	4749
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	34.2
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	4318	4732	5157
55	3962	4600	5292
65	3546	4546	5642
75	2999	4601	6361
85	2160	3883	4350

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	602.68	N.A.	12.70
0-30	1269.96	N.A.	26.70
0-40	2063.35	N.A.	43.50
0-60	3629.39	N.A.	76.40
0-80	4633.83	N.A.	97.60
0-90	4748.73	N.A.	100.00
10-90	4591.95	N.A.	96.70
20-40	1460.67	N.A.	30.80
20-50	2277.93	N.A.	48.00
40-70	2170.48	N.A.	45.70
60-80	1004.44	N.A.	21.20
70-80	400.00	N.A.	8.40
80-90	114.90	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	4748.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.77
10-20	445.91
20-30	667.27
30-40	793.39
40-50	817.26
50-60	748.78
60-70	604.44
70-80	400.00
80-90	114.90
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	37	30	26	37	30	25	36	30	25	24

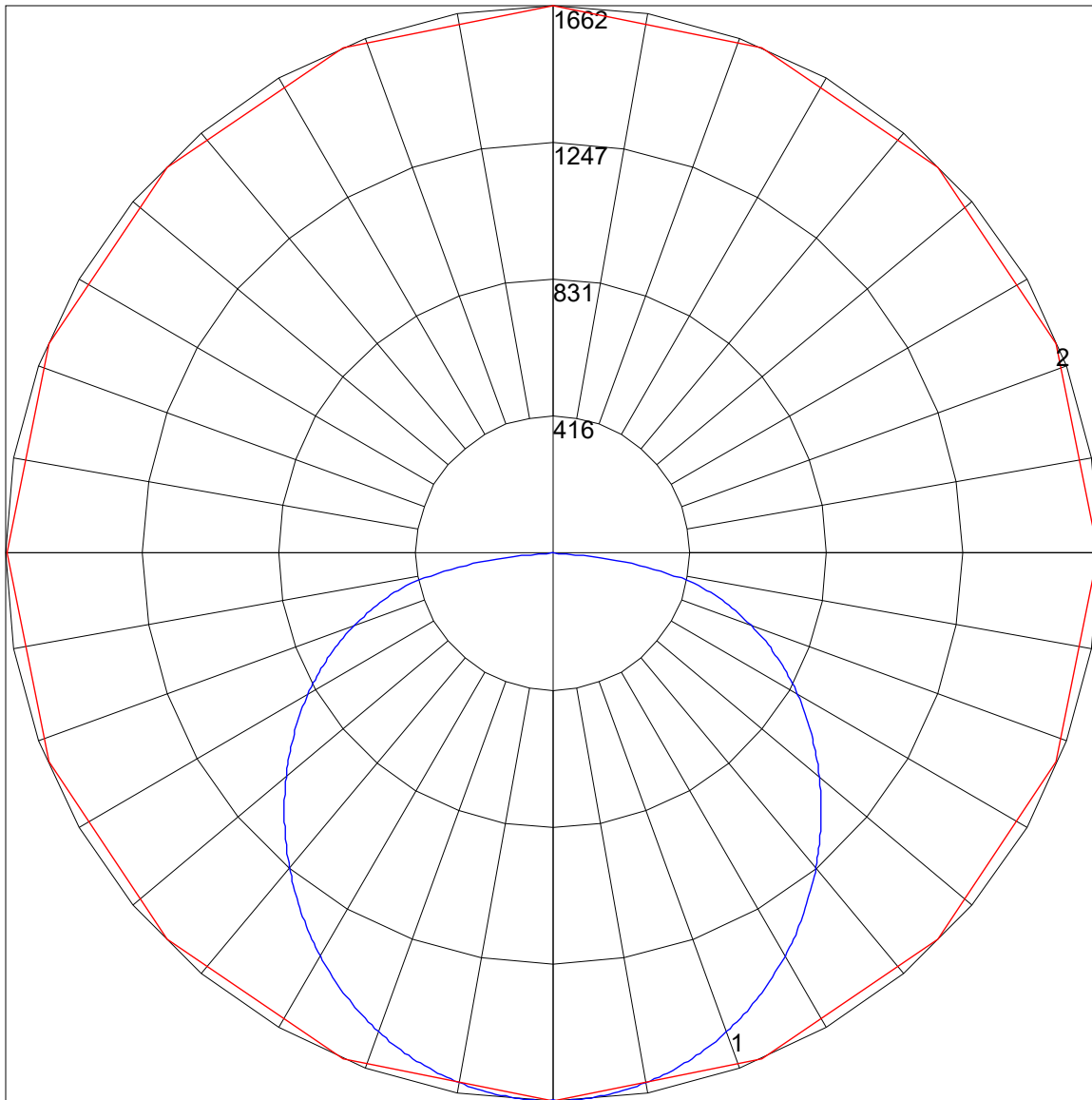
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UGR TABLE - CORRECTED

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	16.5	18.2	16.9	18.5	18.8	18.2	19.9	18.6	20.2	20.5
	3H	18.2	19.7	18.6	20.1	20.4	20.6	22.1	21.0	22.5	22.8
	4H	18.8	20.3	19.2	20.6	21.0	21.7	23.1	22.1	23.5	23.8
	6H	19.3	20.6	19.7	21.0	21.4	22.6	24.0	23.1	24.3	24.7
	8H	19.4	20.7	19.9	21.1	21.5	23.0	24.2	23.4	24.6	25.0
	12H	19.5	20.7	19.9	21.1	21.5	23.1	24.3	23.5	24.7	25.1
4H	2H	17.4	18.8	17.8	19.2	19.6	18.7	20.2	19.1	20.5	20.9
	3H	19.4	20.6	19.8	21.0	21.4	21.4	22.6	21.8	23.0	23.4
	4H	20.1	21.2	20.6	21.6	22.1	22.7	23.8	23.1	24.2	24.6
	6H	20.7	21.7	21.1	22.1	22.6	23.8	24.8	24.2	25.2	25.7
	8H	20.9	21.8	21.4	22.2	22.7	24.2	25.1	24.6	25.5	26.0
	12H	21.0	21.8	21.5	22.3	22.8	24.4	25.2	24.9	25.7	26.1
8H	4H	20.8	21.7	21.2	22.1	22.6	22.9	23.8	23.4	24.3	24.7
	6H	21.5	22.3	22.0	22.8	23.2	24.3	25.0	24.7	25.5	26.0
	8H	21.8	22.5	22.3	23.0	23.4	24.7	25.4	25.2	25.9	26.4
	12H	22.0	22.6	22.5	23.1	23.6	25.0	25.6	25.5	26.1	26.7
12H	4H	20.9	21.7	21.4	22.2	22.7	23.0	23.8	23.4	24.3	24.7
	6H	21.7	22.4	22.3	22.9	23.4	24.3	25.0	24.8	25.4	26.0
	8H	22.1	22.7	22.6	23.2	23.7	24.8	25.4	25.3	25.9	26.5

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1662.257 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.)