



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 LW UV FA 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-007A (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 24 LW 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] 96 white LEDs, two LS3873A7\_3500\_90R 3500K 48 LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 570mA

[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	4160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	29.4
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	1975	2150	2321
55	1814	2098	2379
65	1625	2083	2524
75	1364	2137	2822
85	920	1876	1946

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	524.25	N.A.	12.60
0-30	1106.46	N.A.	26.60
0-40	1800.41	N.A.	43.30
0-60	3173.77	N.A.	76.30
0-80	4057.32	N.A.	97.50
0-90	4160.21	N.A.	100.00
10-90	4024.00	N.A.	96.70
20-40	1276.16	N.A.	30.70
20-50	1992.35	N.A.	47.90
40-70	1904.63	N.A.	45.80
60-80	883.55	N.A.	21.20
70-80	352.29	N.A.	8.50
80-90	102.89	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	4160.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.21
10-20	388.04
20-30	582.22
30-40	693.94
40-50	716.19
50-60	657.17
60-70	531.27
70-80	352.29
80-90	102.89
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	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	45	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**

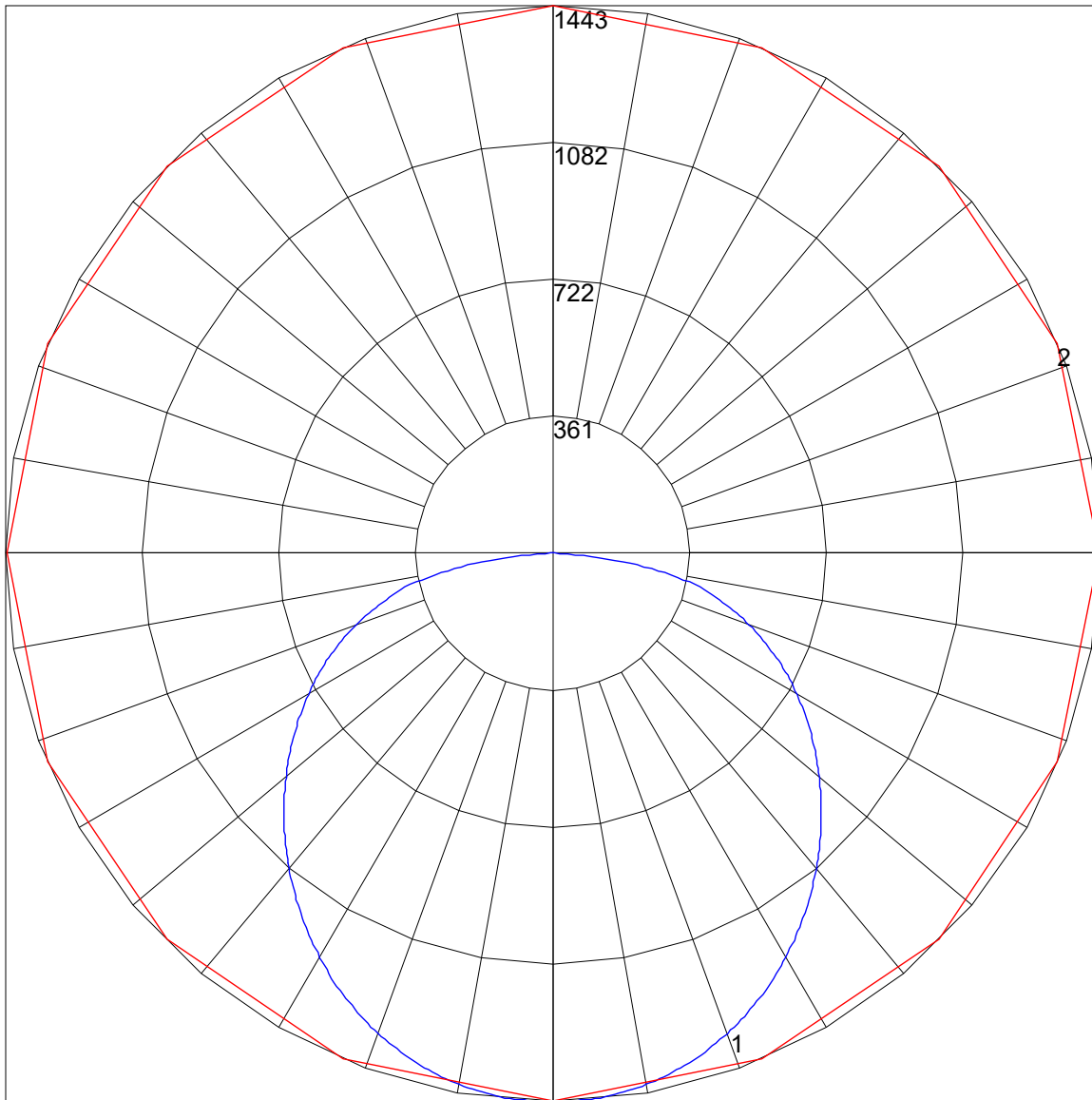
Reflectances

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	13.9	15.5	14.2	15.9	16.2	15.5	17.2	15.9	17.5	17.8
	3H	15.6	17.1	16.0	17.4	17.8	17.9	19.4	18.3	19.7	20.1
	4H	16.2	17.7	16.6	18.0	18.4	18.9	20.4	19.3	20.7	21.1
	6H	16.7	18.0	17.1	18.4	18.8	19.9	21.2	20.3	21.6	21.9
	8H	16.8	18.1	17.2	18.5	18.9	20.2	21.4	20.6	21.8	22.2
	12H	16.9	18.1	17.3	18.5	18.9	20.3	21.5	20.7	21.9	22.3
4H	2H	14.8	16.2	15.2	16.6	17.0	16.1	17.5	16.5	17.8	18.2
	3H	16.8	18.0	17.2	18.4	18.8	18.7	19.9	19.1	20.3	20.7
	4H	17.5	18.6	18.0	19.0	19.5	19.9	21.0	20.4	21.4	21.9
	6H	18.1	19.1	18.6	19.5	20.0	21.0	22.0	21.5	22.4	22.9
	8H	18.3	19.2	18.8	19.6	20.1	21.4	22.3	21.9	22.7	23.2
	12H	18.4	19.2	18.9	19.7	20.2	21.6	22.4	22.1	22.9	23.4
8H	4H	18.2	19.1	18.7	19.5	20.0	20.2	21.1	20.7	21.6	22.0
	6H	19.0	19.7	19.4	20.2	20.7	21.5	22.3	22.0	22.8	23.2
	8H	19.2	19.9	19.7	20.4	20.9	22.0	22.6	22.5	23.2	23.6
	12H	19.4	20.0	19.9	20.5	21.1	22.3	22.9	22.8	23.4	23.9
12H	4H	18.3	19.1	18.8	19.6	20.1	20.3	21.1	20.7	21.6	22.0
	6H	19.2	19.9	19.7	20.3	20.8	21.6	22.3	22.1	22.7	23.3
	8H	19.5	20.1	20.0	20.6	21.2	22.1	22.7	22.6	23.2	23.7

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1443.005 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.)