



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SL 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 SL 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 D700C20UNVPW-C LED driver programmed at 390mA

[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	2850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	20.5
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	1353	1473	1590
55	1243	1437	1630
65	1113	1427	1729
75	934	1464	1933
85	630	1285	1333

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	359.10	N.A.	12.60
0-30	757.92	N.A.	26.60
0-40	1233.26	N.A.	43.30
0-60	2174.00	N.A.	76.30
0-80	2779.22	N.A.	97.50
0-90	2849.7	N.A.	100.00
10-90	2756.4	N.A.	96.70
20-40	874.16	N.A.	30.70
20-50	1364.74	N.A.	47.90
40-70	1304.65	N.A.	45.80
60-80	605.22	N.A.	21.20
70-80	241.31	N.A.	8.50
80-90	70.48	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	2849.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.30
10-20	265.80
20-30	398.81
30-40	475.34
40-50	490.59
50-60	450.15
60-70	363.91
70-80	241.31
80-90	70.48
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	44	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

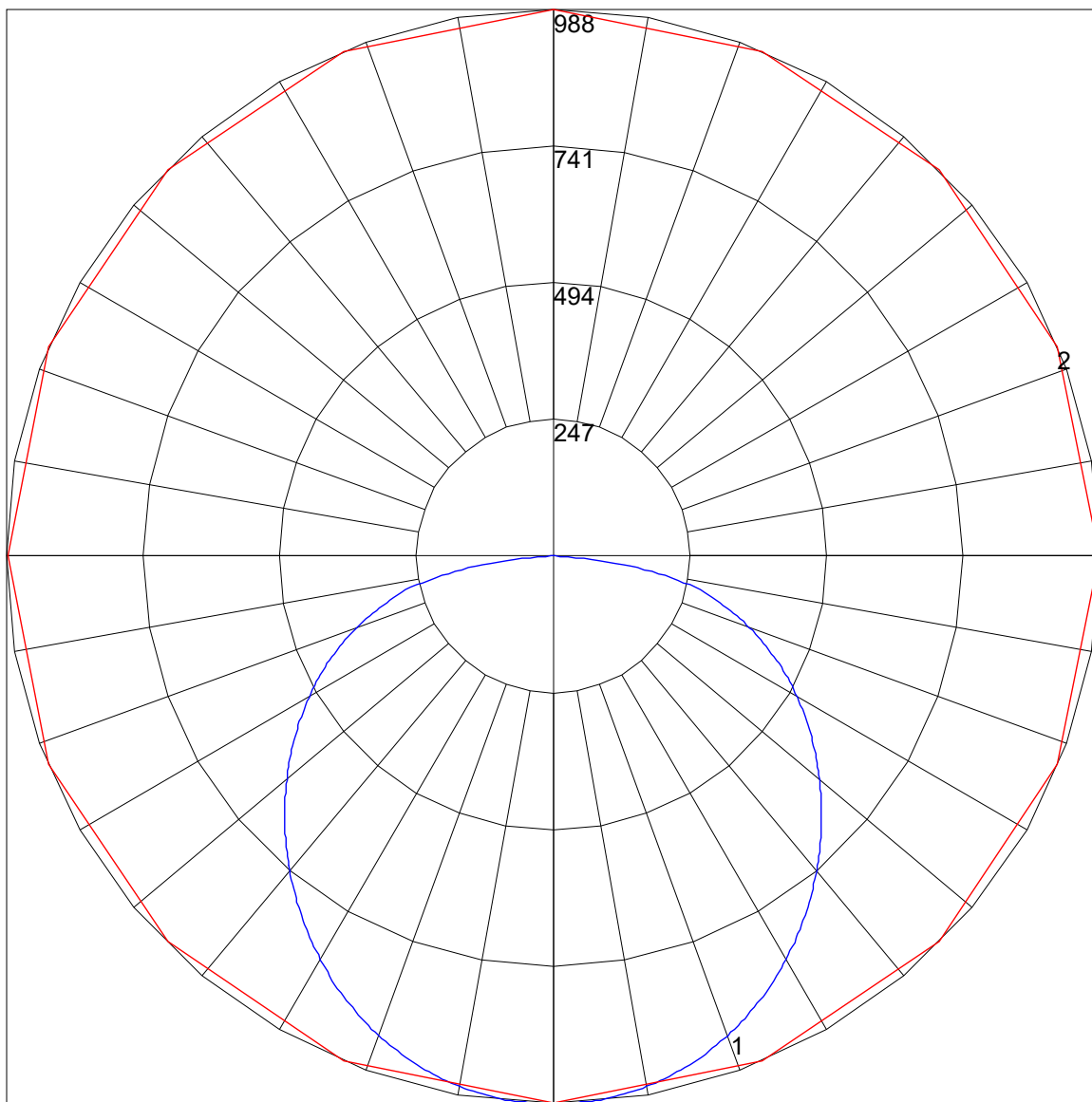
Reflectances

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	12.5	14.1	12.8	14.5	14.8	14.1	15.8	14.5	16.1	16.4
	3H	14.2	15.7	14.6	16.0	16.4	16.5	18.0	16.9	18.3	18.7
	4H	14.8	16.3	15.2	16.6	17.0	17.5	19.0	17.9	19.3	19.7
	6H	15.3	16.6	15.7	17.0	17.4	18.5	19.8	18.9	20.2	20.5
	8H	15.4	16.7	15.8	17.1	17.5	18.8	20.0	19.2	20.4	20.8
	12H	15.5	16.7	15.9	17.1	17.5	18.9	20.1	19.3	20.5	20.9
4H	2H	13.4	14.8	13.8	15.2	15.5	14.7	16.1	15.0	16.4	16.8
	3H	15.4	16.6	15.8	17.0	17.4	17.3	18.5	17.7	18.9	19.3
	4H	16.1	17.2	16.6	17.6	18.1	18.5	19.6	19.0	20.0	20.5
	6H	16.7	17.7	17.1	18.1	18.6	19.6	20.6	20.1	21.0	21.5
	8H	16.9	17.8	17.4	18.2	18.7	20.0	20.9	20.5	21.3	21.8
	12H	17.0	17.8	17.5	18.3	18.8	20.2	21.0	20.7	21.5	22.0
8H	4H	16.8	17.7	17.3	18.1	18.6	18.8	19.7	19.3	20.2	20.6
	6H	17.6	18.3	18.0	18.8	19.3	20.1	20.9	20.6	21.4	21.8
	8H	17.8	18.5	18.3	19.0	19.5	20.6	21.2	21.1	21.8	22.2
	12H	18.0	18.6	18.5	19.1	19.7	20.9	21.5	21.4	22.0	22.5
12H	4H	16.9	17.7	17.4	18.2	18.7	18.9	19.7	19.3	20.2	20.6
	6H	17.8	18.5	18.3	18.9	19.4	20.2	20.9	20.7	21.3	21.9
	8H	18.1	18.7	18.6	19.2	19.8	20.7	21.3	21.2	21.8	22.3

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 988.444 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.)