



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SH 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 SH 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] 128 white LEDs, two LS3873A8_3500_90R 3500K 64 LED boards

[BALLAST] One ULT D21CC80UNVPW-C LED driver programmed at 1220mA

[OTHER] 120.0Vac, 60.00Hz, 0.5234A, 62.63W, 0.997PF, 5.9%THD(i)

[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	8679
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	62.631
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	4121	4486	4842
55	3785	4377	4963
65	3391	4345	5265
75	2845	4459	5888
85	1920	3914	4060

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1093.72	N.A.	12.60
0-30	2308.39	N.A.	26.60
0-40	3756.14	N.A.	43.30
0-60	6621.35	N.A.	76.30
0-80	8464.68	N.A.	97.50
0-90	8679.35	N.A.	100.00
10-90	8395.18	N.A.	96.70
20-40	2662.42	N.A.	30.70
20-50	4156.6	N.A.	47.90
40-70	3973.57	N.A.	45.80
60-80	1843.33	N.A.	21.20
70-80	734.97	N.A.	8.50
80-90	214.66	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	8679.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.17
10-20	809.56
20-30	1214.66
30-40	1447.76
40-50	1494.18
50-60	1371.03
60-70	1108.37
70-80	734.97
80-90	214.66
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

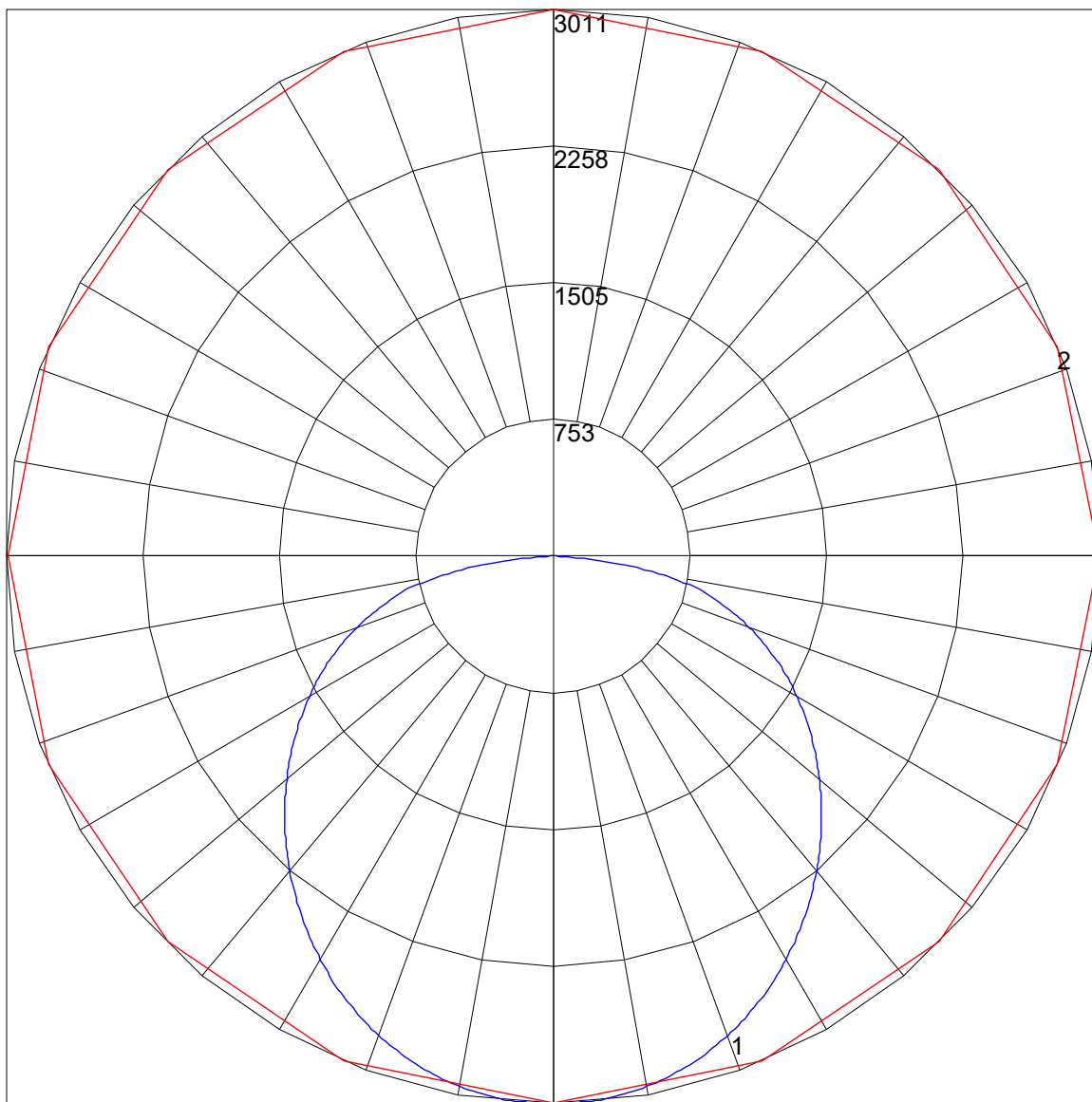
Reflectances

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	16.4	18.0	16.7	18.4	18.7	18.0	19.7	18.4	20.0	20.3
	3H	18.1	19.6	18.5	19.9	20.3	20.4	21.9	20.8	22.2	22.6
	4H	18.7	20.2	19.1	20.5	20.9	21.4	22.9	21.8	23.2	23.6
	6H	19.2	20.5	19.6	20.9	21.3	22.4	23.7	22.8	24.1	24.4
	8H	19.3	20.6	19.7	21.0	21.4	22.7	23.9	23.1	24.3	24.7
	12H	19.4	20.6	19.8	21.0	21.4	22.8	24.0	23.2	24.4	24.8
4H	2H	17.3	18.7	17.7	19.1	19.4	18.6	20.0	19.0	20.3	20.7
	3H	19.3	20.5	19.7	20.9	21.3	21.2	22.4	21.6	22.8	23.2
	4H	20.0	21.1	20.5	21.5	22.0	22.4	23.5	22.9	23.9	24.4
	6H	20.6	21.6	21.1	22.0	22.5	23.5	24.5	24.0	24.9	25.4
	8H	20.8	21.7	21.3	22.1	22.6	23.9	24.8	24.4	25.2	25.7
	12H	20.9	21.7	21.4	22.2	22.7	24.1	24.9	24.6	25.4	25.9
8H	4H	20.7	21.6	21.2	22.0	22.5	22.7	23.6	23.2	24.1	24.5
	6H	21.5	22.2	21.9	22.7	23.2	24.0	24.8	24.5	25.3	25.7
	8H	21.7	22.4	22.2	22.9	23.4	24.5	25.1	25.0	25.7	26.1
	12H	21.9	22.5	22.4	23.0	23.6	24.8	25.4	25.3	25.9	26.4
12H	4H	20.8	21.6	21.3	22.1	22.6	22.8	23.6	23.2	24.1	24.5
	6H	21.7	22.4	22.2	22.8	23.3	24.1	24.8	24.6	25.2	25.8
	8H	22.0	22.6	22.5	23.1	23.7	24.6	25.2	25.1	25.7	26.2

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 3010.506 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.)