



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SL UV FA 940.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 940

[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_4000_90R 4000K 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	2930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	1391	1514	1634
55	1278	1477	1675
65	1145	1467	1777
75	960	1505	1987
85	648	1321	1370

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	369.18	N.A.	12.60
0-30	779.19	N.A.	26.60
0-40	1267.87	N.A.	43.30
0-60	2235.01	N.A.	76.30
0-80	2857.22	N.A.	97.50
0-90	2929.68	N.A.	100.00
10-90	2833.76	N.A.	96.70
20-40	898.69	N.A.	30.70
20-50	1403.04	N.A.	47.90
40-70	1341.27	N.A.	45.80
60-80	622.21	N.A.	21.20
70-80	248.09	N.A.	8.50
80-90	72.46	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	2929.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.92
10-20	273.26
20-30	410.00
30-40	488.68
40-50	504.35
50-60	462.79
60-70	374.12
70-80	248.09
80-90	72.46
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

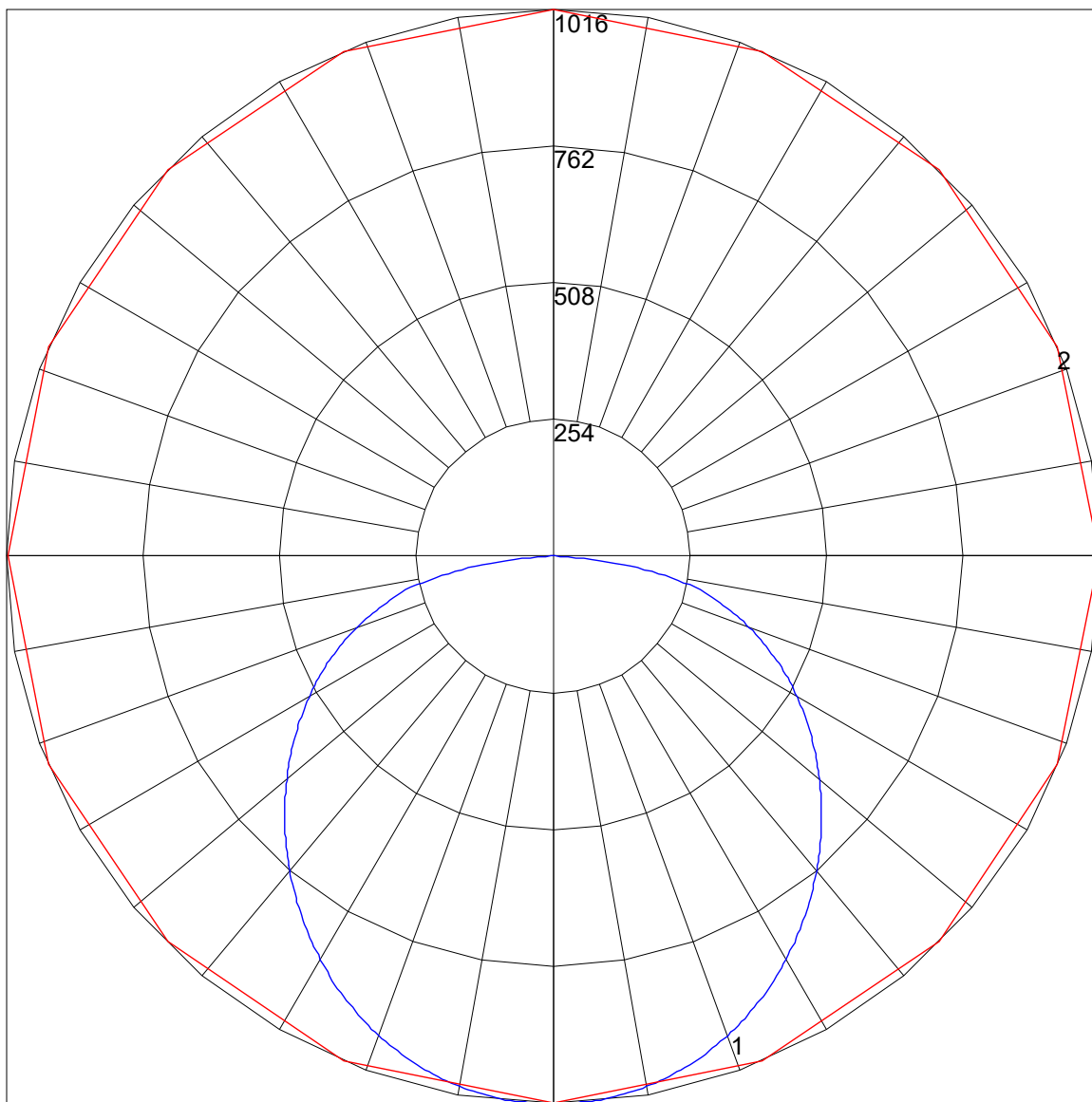
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UGR TABLE - CORRECTED

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	12.6	14.2	12.9	14.6	14.9	14.2	15.9	14.6	16.2	16.5
	3H	14.3	15.8	14.7	16.1	16.5	16.6	18.1	17.0	18.4	18.8
	4H	14.9	16.4	15.3	16.7	17.1	17.6	19.1	18.0	19.4	19.8
	6H	15.4	16.7	15.8	17.1	17.5	18.6	19.9	19.0	20.3	20.6
	8H	15.5	16.8	15.9	17.2	17.6	18.9	20.1	19.3	20.5	20.9
	12H	15.6	16.8	16.0	17.2	17.6	19.0	20.2	19.4	20.6	21.0
4H	2H	13.5	14.9	13.9	15.3	15.6	14.8	16.2	15.1	16.5	16.9
	3H	15.5	16.7	15.9	17.1	17.5	17.4	18.6	17.8	19.0	19.4
	4H	16.2	17.3	16.7	17.7	18.2	18.6	19.7	19.1	20.1	20.6
	6H	16.8	17.8	17.2	18.2	18.7	19.7	20.7	20.2	21.1	21.6
	8H	17.0	17.9	17.5	18.3	18.8	20.1	21.0	20.6	21.4	21.9
	12H	17.1	17.9	17.6	18.4	18.9	20.3	21.1	20.8	21.6	22.1
8H	4H	16.9	17.8	17.4	18.2	18.7	18.9	19.8	19.4	20.3	20.7
	6H	17.7	18.4	18.1	18.9	19.4	20.2	21.0	20.7	21.5	21.9
	8H	17.9	18.6	18.4	19.1	19.6	20.7	21.3	21.2	21.9	22.3
	12H	18.1	18.7	18.6	19.2	19.8	21.0	21.6	21.5	22.1	22.6
12H	4H	17.0	17.8	17.5	18.3	18.8	19.0	19.8	19.4	20.3	20.7
	6H	17.9	18.6	18.4	19.0	19.5	20.3	21.0	20.8	21.4	22.0
	8H	18.2	18.8	18.7	19.3	19.9	20.8	21.4	21.3	21.9	22.4

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1016.185 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.)