



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 LW UV FA 930.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/28/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFL G2 2R 24 LW UV FA 930

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,

[MORE] two frosted linear ribbed plastic enclosures.

[LAMP] 192 white LEDs, four LS3873A7_3000_90R 3000K LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 560mA

[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	4113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.85 ft
Luminous Width (90-270)	1.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1904	2025	2132
55	1763	1943	2099
65	1594	1843	2041
75	1337	1656	1829
85	845	931	695

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	539.38	N.A.	13.10
0-30	1138.77	N.A.	27.70
0-40	1852.44	N.A.	45.00
0-60	3244.38	N.A.	78.90
0-80	4047.49	N.A.	98.40
0-90	4113.37	N.A.	100.00
10-90	3973.26	N.A.	96.60
20-40	1313.06	N.A.	31.90
20-50	2045.31	N.A.	49.70
40-70	1900.08	N.A.	46.20
60-80	803.11	N.A.	19.50
70-80	294.96	N.A.	7.20
80-90	65.88	N.A.	1.60
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	4113.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.10
10-20	399.28
20-30	599.38
30-40	713.68
40-50	732.25
50-60	659.69
60-70	508.14
70-80	294.96
80-90	65.88
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

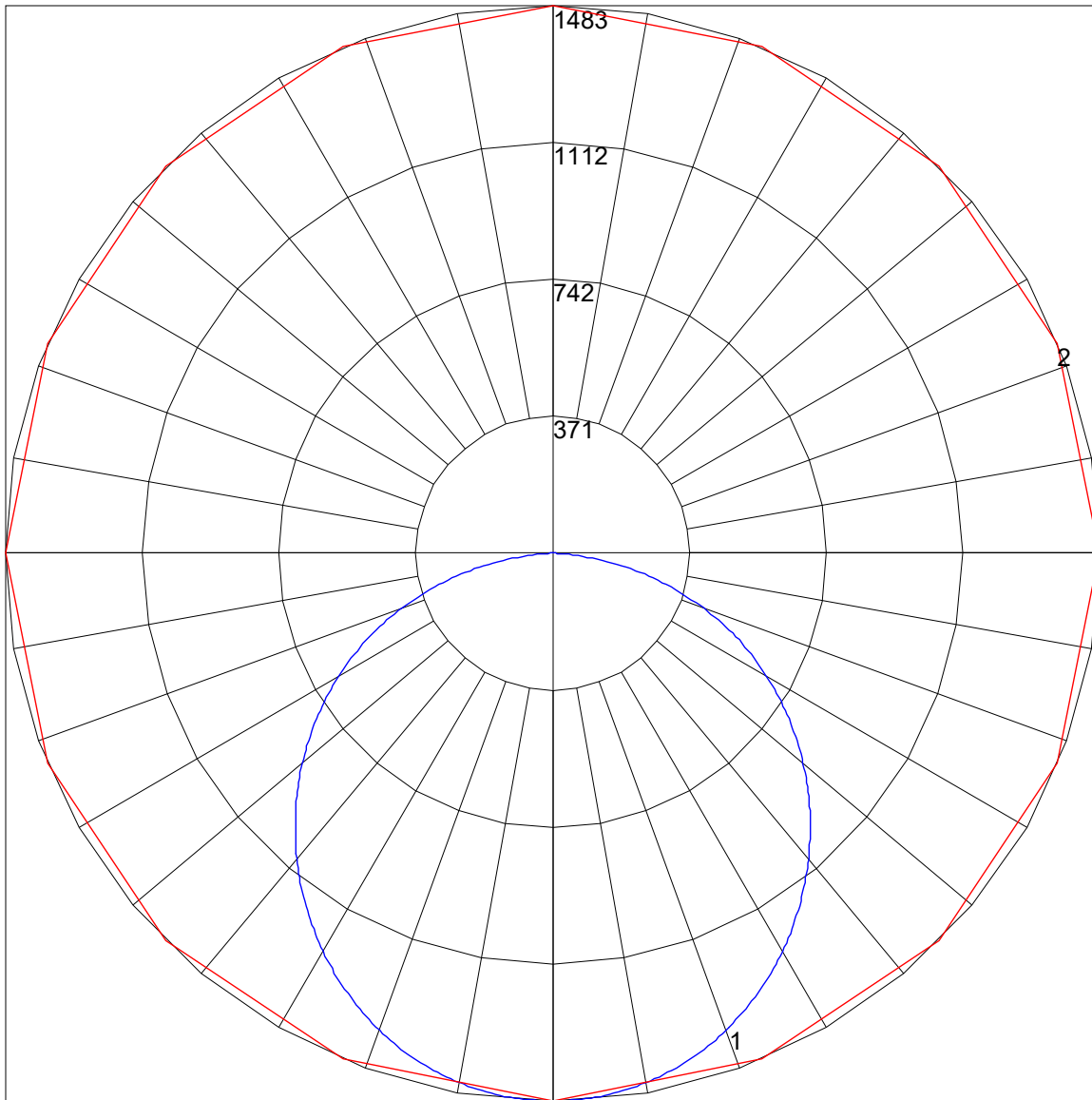
Reflectances

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	13.9	15.5	14.3	15.9	16.2	14.9	16.5	15.3	16.8	17.2
	3H	15.6	17.1	16.0	17.4	17.8	16.9	18.4	17.2	18.7	19.0
	4H	16.3	17.6	16.7	18.0	18.4	17.6	19.0	18.0	19.4	19.7
	6H	16.7	18.0	17.1	18.3	18.7	18.1	19.4	18.5	19.8	20.2
	8H	16.8	18.0	17.2	18.4	18.8	18.2	19.5	18.6	19.9	20.3
	12H	16.8	18.0	17.3	18.4	18.8	18.3	19.4	18.7	19.8	20.3
4H	2H	14.7	16.1	15.1	16.4	16.8	15.5	16.9	15.9	17.2	17.6
	3H	16.6	17.8	17.1	18.2	18.6	17.7	18.8	18.1	19.2	19.6
	4H	17.4	18.4	17.8	18.9	19.3	18.5	19.6	19.0	20.0	20.5
	6H	17.9	18.9	18.4	19.3	19.7	19.2	20.1	19.6	20.6	21.0
	8H	18.1	18.9	18.5	19.4	19.9	19.3	20.2	19.8	20.7	21.1
	12H	18.2	19.0	18.6	19.4	19.9	19.4	20.2	19.9	20.7	21.1
8H	4H	17.8	18.7	18.2	19.1	19.6	18.8	19.7	19.3	20.1	20.6
	6H	18.5	19.2	19.0	19.7	20.1	19.6	20.3	20.1	20.8	21.3
	8H	18.7	19.3	19.2	19.8	20.3	19.8	20.4	20.3	20.9	21.4
	12H	18.8	19.4	19.3	19.9	20.5	19.9	20.4	20.4	20.9	21.5
12H	4H	17.8	18.6	18.3	19.1	19.6	18.8	19.6	19.3	20.1	20.6
	6H	18.6	19.2	19.1	19.7	20.2	19.6	20.3	20.1	20.7	21.3
	8H	18.8	19.4	19.3	19.9	20.4	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1483.257 Located At Horizontal Angle = 67.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)