



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 ML UV FA 935.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 ML UV FA 935

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

[MORE] two frosted linear ribbed plastic enclosures.

[LAMP] 192 white LEDs, four LS3873A7\_3500\_90R 3500K LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 660mA

[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	4878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	32.8
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	2258	2401	2528
55	2091	2304	2489
65	1890	2185	2420
75	1585	1964	2168
85	1001	1104	824

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	639.59	N.A.	13.10
0-30	1350.33	N.A.	27.70
0-40	2196.6	N.A.	45.00
0-60	3847.14	N.A.	78.90
0-80	4799.45	N.A.	98.40
0-90	4877.57	N.A.	100.00
10-90	4711.44	N.A.	96.60
20-40	1557.01	N.A.	31.90
20-50	2425.3	N.A.	49.70
40-70	2253.09	N.A.	46.20
60-80	952.31	N.A.	19.50
70-80	349.76	N.A.	7.20
80-90	78.12	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	4877.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	166.13
10-20	473.46
20-30	710.74
30-40	846.27
40-50	868.30
50-60	782.25
60-70	602.55
70-80	349.76
80-90	78.12
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**

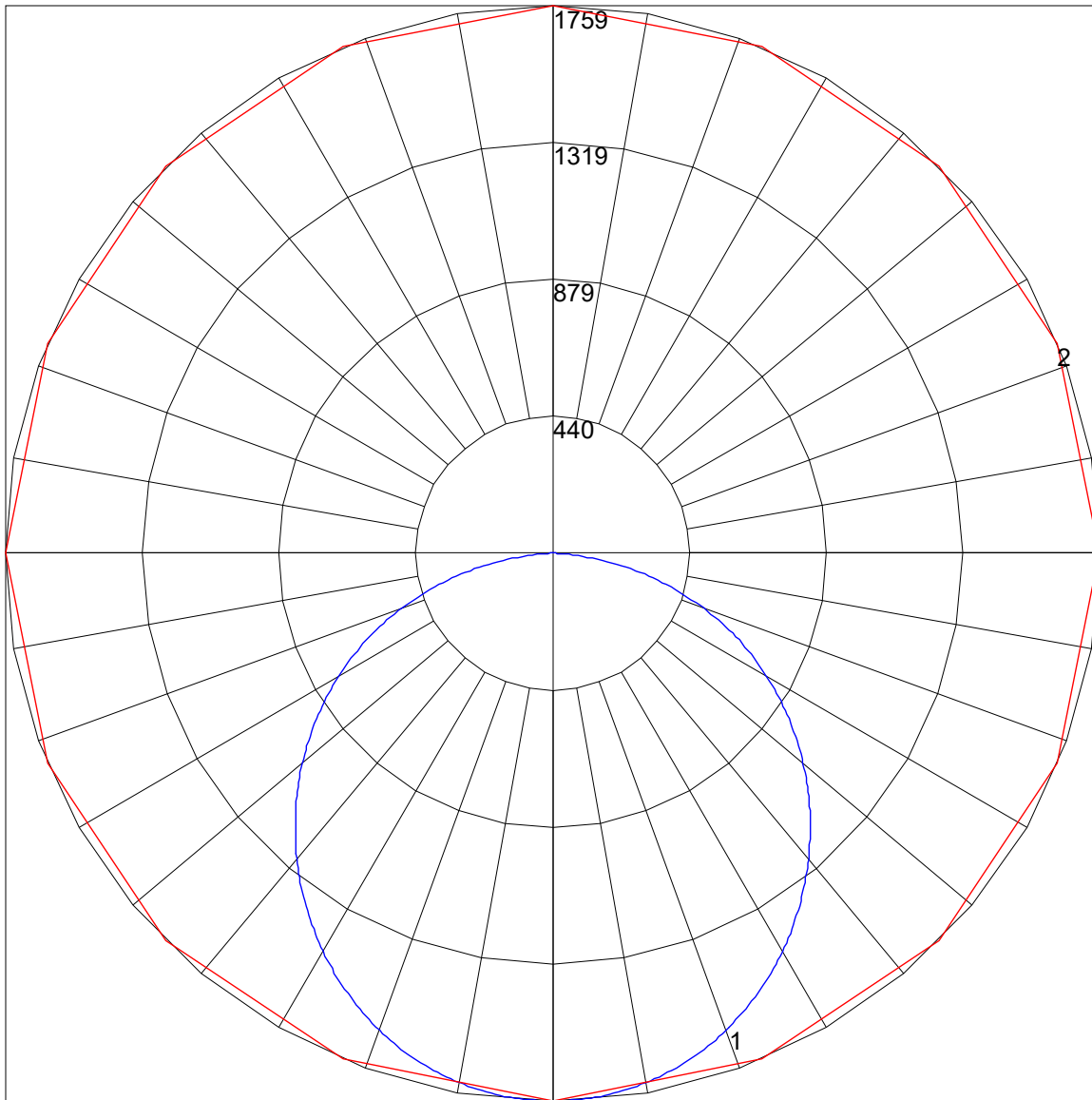
Reflectances

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	14.5	16.1	14.9	16.5	16.8	15.5	17.1	15.9	17.4	17.8
	3H	16.2	17.7	16.6	18.0	18.4	17.5	19.0	17.8	19.3	19.6
	4H	16.9	18.2	17.3	18.6	19.0	18.2	19.6	18.6	20.0	20.3
	6H	17.3	18.6	17.7	18.9	19.3	18.7	20.0	19.1	20.4	20.8
	8H	17.4	18.6	17.8	19.0	19.4	18.8	20.1	19.2	20.5	20.9
	12H	17.4	18.6	17.9	19.0	19.4	18.9	20.0	19.3	20.4	20.9
4H	2H	15.3	16.7	15.7	17.0	17.4	16.1	17.5	16.5	17.8	18.2
	3H	17.2	18.4	17.7	18.8	19.2	18.3	19.4	18.7	19.8	20.2
	4H	18.0	19.0	18.4	19.5	19.9	19.2	20.2	19.6	20.6	21.1
	6H	18.5	19.5	19.0	19.9	20.4	19.8	20.7	20.2	21.2	21.6
	8H	18.7	19.6	19.1	20.0	20.5	19.9	20.8	20.4	21.3	21.7
	12H	18.8	19.6	19.2	20.0	20.5	20.0	20.8	20.5	21.3	21.7
8H	4H	18.4	19.3	18.8	19.7	20.2	19.4	20.3	19.9	20.7	21.2
	6H	19.1	19.8	19.6	20.3	20.7	20.2	20.9	20.7	21.4	21.9
	8H	19.3	19.9	19.8	20.4	20.9	20.4	21.0	20.9	21.5	22.0
	12H	19.4	20.0	19.9	20.5	21.1	20.5	21.0	21.0	21.5	22.1
12H	4H	18.4	19.2	18.9	19.7	20.2	19.4	20.2	19.9	20.7	21.2
	6H	19.2	19.8	19.7	20.3	20.8	20.2	20.9	20.7	21.3	21.9
	8H	19.4	20.0	19.9	20.5	21.0	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1758.824 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.)