



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL25 UV FA 935 @450MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFL G2 2R 24 SEL25 UV FA 935

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

[MORE] two frosted linear ribbed plastic enclosures.

[LAMPCAT] Four LS3873A7\_3500\_90R 3500K 48 LED boards

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set to 450mA

[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	3280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	22
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	1518	1614	1700
55	1406	1549	1674
65	1271	1469	1628
75	1066	1320	1458
85	673	743	554

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	430.07	N.A.	13.10
0-30	907.97	N.A.	27.70
0-40	1477.01	N.A.	45.00
0-60	2586.84	N.A.	78.90
0-80	3227.18	N.A.	98.40
0-90	3279.71	N.A.	100.00
10-90	3168.00	N.A.	96.60
20-40	1046.94	N.A.	31.90
20-50	1630.79	N.A.	49.70
40-70	1514.99	N.A.	46.20
60-80	640.34	N.A.	19.50
70-80	235.18	N.A.	7.20
80-90	52.53	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	3279.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.71
10-20	318.36
20-30	477.90
30-40	569.04
40-50	583.85
50-60	525.99
60-70	405.16
70-80	235.18
80-90	52.53
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

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

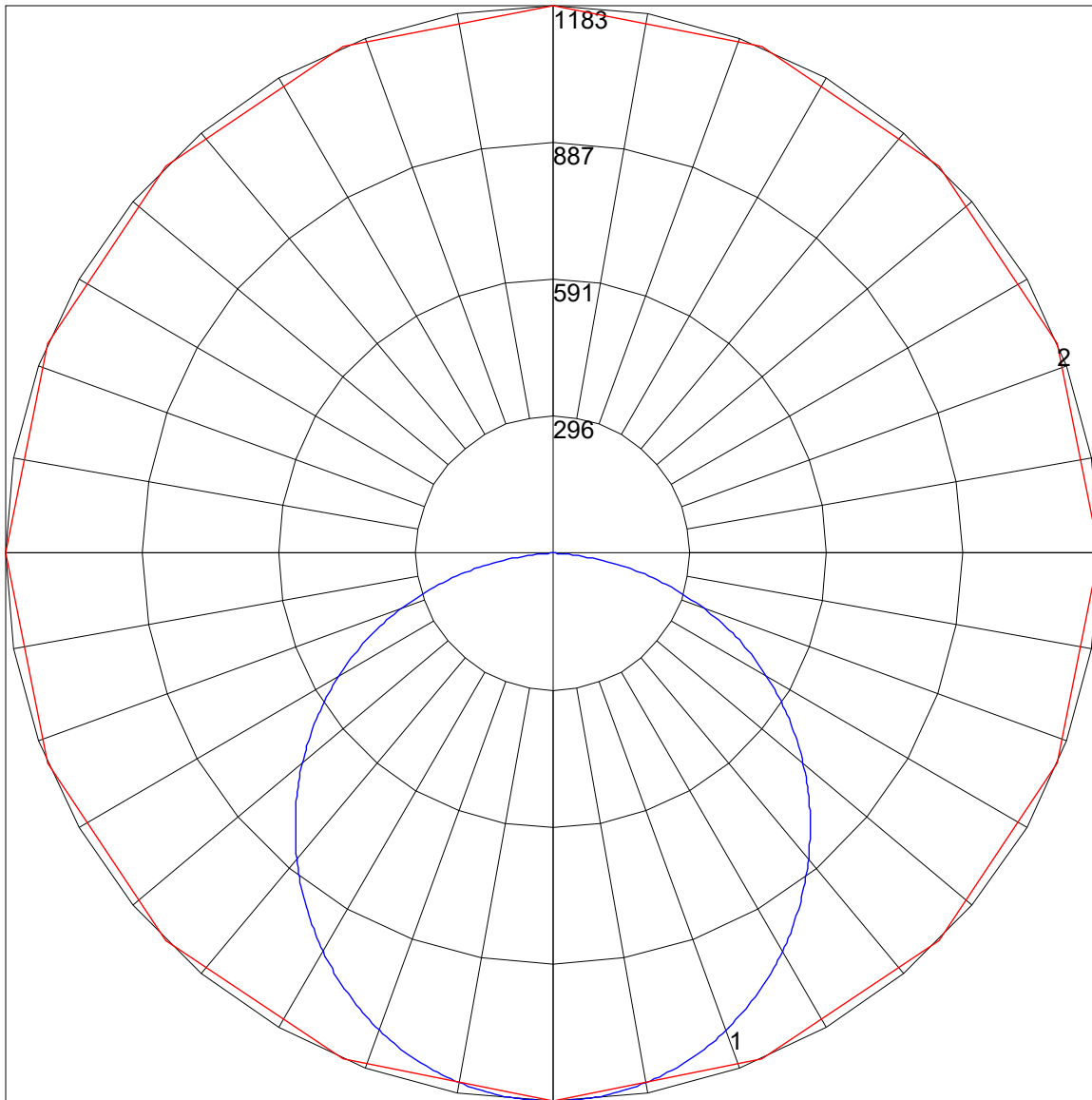
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**UGR TABLE - CORRECTED**

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	13.1	14.7	13.5	15.1	15.4	14.1	15.7	14.5	16.0	16.4
	3H	14.8	16.3	15.2	16.6	17.0	16.1	17.6	16.4	17.9	18.2
	4H	15.5	16.8	15.9	17.2	17.6	16.8	18.2	17.2	18.6	18.9
	6H	15.9	17.2	16.3	17.5	17.9	17.3	18.6	17.7	19.0	19.4
	8H	16.0	17.2	16.4	17.6	18.0	17.4	18.7	17.8	19.1	19.5
	12H	16.0	17.2	16.5	17.6	18.0	17.5	18.6	17.9	19.0	19.5
4H	2H	13.9	15.3	14.3	15.6	16.0	14.7	16.1	15.1	16.4	16.8
	3H	15.8	17.0	16.3	17.4	17.8	16.9	18.0	17.3	18.4	18.8
	4H	16.6	17.6	17.0	18.1	18.5	17.7	18.8	18.2	19.2	19.7
	6H	17.1	18.1	17.6	18.5	18.9	18.4	19.3	18.8	19.8	20.2
	8H	17.3	18.1	17.7	18.6	19.1	18.5	19.4	19.0	19.9	20.3
	12H	17.4	18.2	17.8	18.6	19.1	18.6	19.4	19.1	19.9	20.3
8H	4H	17.0	17.9	17.4	18.3	18.8	18.0	18.9	18.5	19.3	19.8
	6H	17.7	18.4	18.2	18.9	19.3	18.8	19.5	19.3	20.0	20.5
	8H	17.9	18.5	18.4	19.0	19.5	19.0	19.6	19.5	20.1	20.6
	12H	18.0	18.6	18.5	19.1	19.7	19.1	19.6	19.6	20.1	20.7
12H	4H	17.0	17.8	17.5	18.3	18.8	18.0	18.8	18.5	19.3	19.8
	6H	17.8	18.4	18.3	18.9	19.4	18.8	19.5	19.3	19.9	20.5
	8H	18.0	18.6	18.5	19.1	19.6	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1182.643 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.)