



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 14 VL UV FA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-027 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/28/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFL G2 14 VL UV FA 940

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

[MORE] frosted linear ribbed plastic enclosure.

[LAMP] 96 white LEDs, two LS3873A7\_4000\_90R 4000K LED boards

[BALLAST] One ULT D700C20UNVPW-C LED driver programmed at 400mA

[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	2989
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	21
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.85 ft
Luminous Width (90-270)	0.85 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3018	3206	3376
55	2806	3080	3317
65	2542	2910	3175
75	2135	2561	2724
85	1357	1246	558

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	392.89	N.A.	13.10
0-30	829.76	N.A.	27.80
0-40	1350.54	N.A.	45.20
0-60	2367.22	N.A.	79.20
0-80	2945.7	N.A.	98.60
0-90	2988.61	N.A.	100.00
10-90	2886.58	N.A.	96.60
20-40	957.64	N.A.	32.00
20-50	1492.49	N.A.	49.90
40-70	1385.74	N.A.	46.40
60-80	578.48	N.A.	19.40
70-80	209.42	N.A.	7.00
80-90	42.91	N.A.	1.40
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	2988.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.04
10-20	290.86
20-30	436.87
30-40	520.77
40-50	534.85
50-60	481.83
60-70	369.06
70-80	209.42
80-90	42.91
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	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

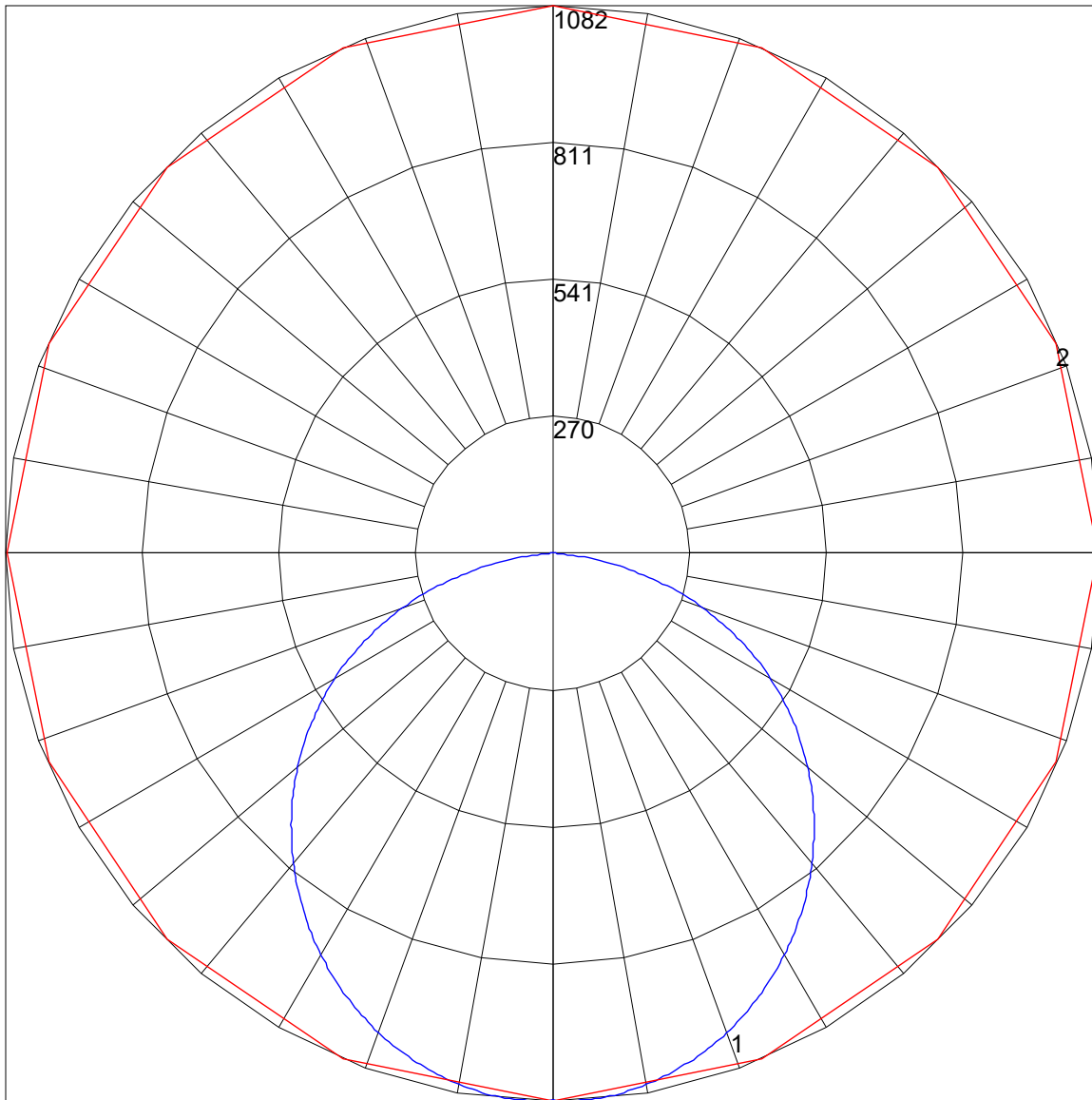
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**UGR TABLE - CORRECTED**

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	15.6	17.2	15.9	17.5	17.8	16.5	18.2	16.9	18.5	18.8
	3H	17.3	18.8	17.7	19.1	19.5	18.4	19.9	18.8	20.2	20.6
	4H	17.9	19.3	18.3	19.6	20.0	19.1	20.5	19.5	20.8	21.2
	6H	18.3	19.6	18.7	20.0	20.4	19.5	20.8	19.9	21.2	21.6
	8H	18.5	19.7	18.9	20.1	20.5	19.6	20.9	20.1	21.2	21.6
	12H	18.5	19.7	18.9	20.1	20.5	19.6	20.8	20.0	21.2	21.6
4H	2H	16.3	17.7	16.7	18.1	18.4	17.1	18.5	17.5	18.8	19.2
	3H	18.3	19.4	18.7	19.8	20.2	19.2	20.4	19.6	20.8	21.2
	4H	19.0	20.1	19.5	20.5	20.9	20.0	21.1	20.5	21.5	21.9
	6H	19.6	20.5	20.0	20.9	21.4	20.6	21.5	21.0	21.9	22.4
	8H	19.7	20.6	20.2	21.0	21.5	20.7	21.6	21.2	22.0	22.5
	12H	19.8	20.6	20.3	21.1	21.5	20.7	21.5	21.2	22.0	22.4
8H	4H	19.4	20.3	19.9	20.7	21.2	20.3	21.2	20.7	21.6	22.1
	6H	20.1	20.8	20.6	21.3	21.7	20.9	21.7	21.4	22.2	22.6
	8H	20.3	20.9	20.8	21.4	21.9	21.1	21.8	21.6	22.3	22.7
	12H	20.4	21.0	21.0	21.5	22.1	21.2	21.7	21.7	22.2	22.8
12H	4H	19.5	20.2	19.9	20.7	21.2	20.3	21.1	20.8	21.6	22.0
	6H	20.1	20.8	20.7	21.3	21.8	21.0	21.6	21.5	22.1	22.6
	8H	20.4	21.0	20.9	21.5	22.0	21.2	21.8	21.7	22.3	22.8

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1081.741 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)