



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SL UV FA 940.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 SL UV FA 940

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

[MORE] two frosted linear ribbed plastic enclosures.

[LAMP] 192 white LEDs, four LS3873A7 4000\_90R 4000K 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	2931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	20.2
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	1357	1443	1519
55	1256	1385	1496
65	1136	1313	1455
75	953	1180	1303
85	602	664	495

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	384.39	N.A.	13.10
0-30	811.55	N.A.	27.70
0-40	1320.15	N.A.	45.00
0-60	2312.13	N.A.	78.90
0-80	2884.46	N.A.	98.40
0-90	2931.41	N.A.	100.00
10-90	2831.57	N.A.	96.60
20-40	935.76	N.A.	31.90
20-50	1457.6	N.A.	49.70
40-70	1354.1	N.A.	46.20
60-80	572.34	N.A.	19.50
70-80	210.21	N.A.	7.20
80-90	46.95	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	2931.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.85
10-20	284.55
20-30	427.15
30-40	508.61
40-50	521.84
50-60	470.13
60-70	362.13
70-80	210.21
80-90	46.95
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**

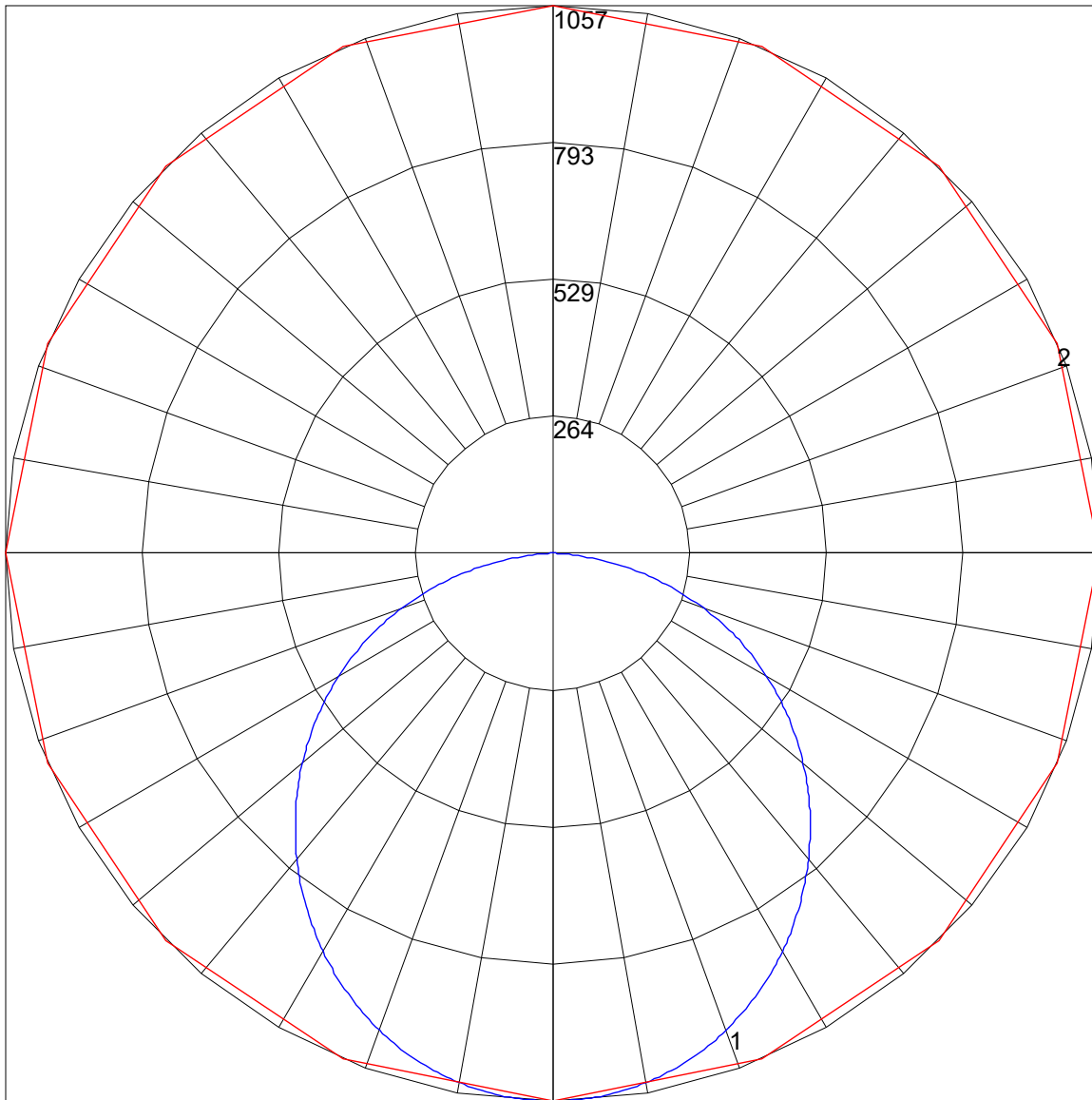
Reflectances

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	12.7	14.3	13.1	14.7	15.0	13.7	15.3	14.1	15.6	16.0
	3H	14.4	15.9	14.8	16.2	16.6	15.7	17.2	16.0	17.5	17.8
	4H	15.1	16.4	15.5	16.8	17.2	16.4	17.8	16.8	18.2	18.5
	6H	15.5	16.8	15.9	17.1	17.5	16.9	18.2	17.3	18.6	19.0
	8H	15.6	16.8	16.0	17.2	17.6	17.0	18.3	17.4	18.7	19.1
	12H	15.6	16.8	16.1	17.2	17.6	17.1	18.2	17.5	18.6	19.1
4H	2H	13.5	14.9	13.9	15.2	15.6	14.3	15.7	14.7	16.0	16.4
	3H	15.4	16.6	15.9	17.0	17.4	16.5	17.6	16.9	18.0	18.4
	4H	16.2	17.2	16.6	17.7	18.1	17.3	18.4	17.8	18.8	19.3
	6H	16.7	17.7	17.2	18.1	18.6	18.0	18.9	18.4	19.4	19.8
	8H	16.9	17.7	17.3	18.2	18.7	18.1	19.0	18.6	19.5	19.9
	12H	17.0	17.8	17.4	18.2	18.7	18.2	19.0	18.7	19.5	19.9
8H	4H	16.6	17.5	17.0	17.9	18.4	17.6	18.5	18.1	18.9	19.4
	6H	17.3	18.0	17.8	18.5	18.9	18.4	19.1	18.9	19.6	20.1
	8H	17.5	18.1	18.0	18.6	19.1	18.6	19.2	19.1	19.7	20.2
	12H	17.6	18.2	18.1	18.7	19.3	18.7	19.2	19.2	19.7	20.3
12H	4H	16.6	17.4	17.1	17.9	18.4	17.6	18.4	18.1	18.9	19.4
	6H	17.4	18.0	17.9	18.5	19.0	18.4	19.1	18.9	19.5	20.1
	8H	17.6	18.2	18.1	18.7	19.2	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 1057.05 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.)