IES INDOOR REPORT
PHOTOMETRIC FILENAME : FFL 2R G2 22 VH HO UV FA 935.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLIA001588-035A (s)
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 3/4/2022
[MANUFAC] Lumen Focus, LLC
[LUMCAT] FFL 2R G2 22 VH HO UV FA 935
[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,
[MORE] two optical compartments each with one frosted linear ribbed plastic enclosure.
[LAMP] 168 white LEDs, two LS3872A10_3500_90R 3500K LED boards
[BALLAST] One ULT D21CC80UNVPW-C LED driver programmed at 1850mA
[OTHER] 120.0Vac, 60.01Hz, 0.6908A, 82.78W, 0.998PF, 4.8%THD(i)
[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	10961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	82.78
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.85 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	10446	11198	11945
55	9628	10698	11791
65	8663	10080	11476
75	7226	8950	10261
85	4558	4804	4313

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1449.36	N.A.	13.20
0-30	3055.34	N.A.	27.90
0-40	4962.54	N.A.	45.30
0-60	8668.34	N.A.	79.10
0-80	10788.58	N.A.	98.40
0-90	10960.87	N.A.	100.00
10-90	10584.02	N.A.	96.60
20-40	3513.18	N.A.	32.10
20-50	5465.19	N.A.	49.90
40-70	5051.27	N.A.	46.10
60-80	2120.24	N.A.	19.30
70-80	774.77	N.A.	7.10
80-90	172.29	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	10960.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	376.85
10-20	1072.51
20-30	1605.98
30-40	1907.2
40-50	1952.01
50-60	1753.78
60-70	1345.47
70-80	774.77
80-90	172.29
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	98	94	91	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	33	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	31	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	19.8	21.4	20.1	21.7	22.0	20.9	22.5	21.3	22.8	23.2
	3H	21.5	22.9	21.8	23.3	23.6	22.9	24.4	23.3	24.7	25.0
	4H	22.1	23.5	22.5	23.8	24.2	23.6	25.0	24.0	25.4	25.7
	6H	22.5	23.8	22.9	24.1	24.5	24.1	25.4	24.5	25.8	26.2
	8H	22.6	23.8	23.0	24.2	24.6	24.2	25.5	24.7	25.9	26.3
	12H	22.6	23.8	23.1	24.2	24.6	24.3	25.4	24.7	25.8	26.3
4H	2H	20.5	21.9	20.9	22.3	22.7	21.4	22.8	21.8	23.2	23.6
	3H	22.5	23.6	22.9	24.0	24.4	23.7	24.8	24.1	25.2	25.6
	4H	23.2	24.2	23.6	24.7	25.1	24.5	25.6	25.0	26.0	26.4
	6H	23.7	24.6	24.2	25.1	25.5	25.2	26.1	25.6	26.5	27.0
	8H	23.9	24.7	24.3	25.2	25.6	25.3	26.2	25.8	26.6	27.1
	12H	24.0	24.7	24.5	25.2	25.7	25.4	26.1	25.9	26.6	27.1
8H	4H	23.6	24.5	24.1	24.9	25.4	24.8	25.6	25.2	26.1	26.5
	6H	24.2	25.0	24.7	25.5	25.9	25.5	26.2	26.0	26.7	27.2
	8H	24.5	25.1	25.0	25.6	26.1	25.7	26.4	26.2	26.9	27.4
	12H	24.6	25.2	25.1	25.7	26.2	25.8	26.4	26.3	26.9	27.4
12H	4H	23.7	24.4	24.1	24.9	25.4	24.8	25.6	25.3	26.0	26.5
	6H	24.3	25.0	24.9	25.4	26.0	25.6	26.2	26.1	26.7	27.2
	8H	24.6	25.2	25.1	25.6	26.2	25.8	26.4	26.3	26.9	27.4

Maximum UGR = 27.4

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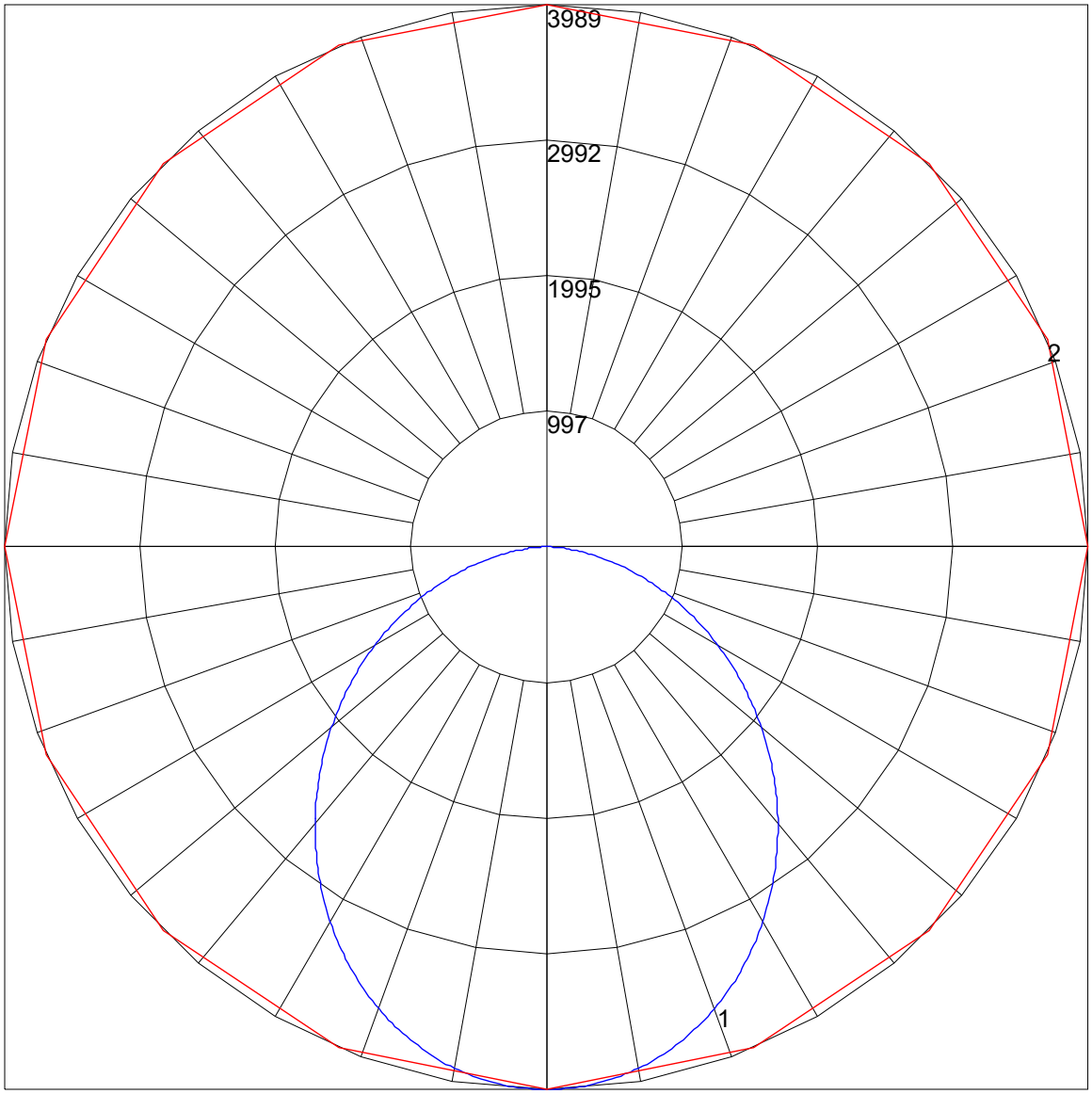
POLAR GRAPH



Maximum Candela = 3989.251 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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