IES INDOOR REPORT
PHOTOMETRIC FILENAME : FFL 2R G2 22 HI HO UV FA 940.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 HI HO UV FA 940
[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_4000_90R 4000K LED boards
[BALLAST] One ULT D21CC80UNVPW-C LED driver programmed at 1530mA
[OTHER] 120.0Vac, 60.01Hz
[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	9433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	67.8
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	8990	9637	10280
55	8285	9207	10147
65	7455	8675	9876
75	6219	7702	8830
85	3923	4134	3712

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1247.31	N.A.	13.20
0-30	2629.41	N.A.	27.90
0-40	4270.74	N.A.	45.30
0-60	7459.93	N.A.	79.10
0-80	9284.59	N.A.	98.40
0-90	9432.87	N.A.	100.00
10-90	9108.56	N.A.	96.60
20-40	3023.42	N.A.	32.10
20-50	4703.32	N.A.	49.90
40-70	4347.1	N.A.	46.10
60-80	1824.67	N.A.	19.30
70-80	666.76	N.A.	7.10
80-90	148.28	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	9432.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	324.31
10-20	923.00
20-30	1382.1
30-40	1641.33
40-50	1679.89
50-60	1509.29
60-70	1157.91
70-80	666.76
80-90	148.28
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	19.2	20.9	19.6	21.2	21.5	20.4	22.0	20.8	22.3	22.7
	3H	21.0	22.4	21.3	22.8	23.1	22.4	23.9	22.8	24.2	24.5
	4H	21.6	23.0	22.0	23.3	23.7	23.1	24.5	23.5	24.9	25.2
	6H	22.0	23.3	22.4	23.6	24.0	23.6	24.9	24.0	25.3	25.7
	8H	22.1	23.3	22.5	23.7	24.1	23.7	25.0	24.2	25.4	25.8
	12H	22.1	23.3	22.6	23.7	24.1	23.8	24.9	24.2	25.3	25.8
4H	2H	20.0	21.4	20.4	21.8	22.2	20.9	22.3	21.3	22.7	23.1
	3H	22.0	23.1	22.4	23.5	23.9	23.2	24.3	23.6	24.7	25.1
	4H	22.7	23.7	23.1	24.2	24.6	24.0	25.1	24.5	25.5	25.9
	6H	23.2	24.1	23.7	24.6	25.0	24.7	25.6	25.1	26.0	26.5
	8H	23.4	24.2	23.8	24.7	25.1	24.8	25.7	25.3	26.1	26.6
	12H	23.5	24.2	24.0	24.7	25.2	24.9	25.6	25.4	26.1	26.6
8H	4H	23.1	24.0	23.6	24.4	24.9	24.3	25.1	24.7	25.6	26.0
	6H	23.7	24.5	24.2	25.0	25.4	25.0	25.7	25.5	26.2	26.7
	8H	24.0	24.6	24.5	25.1	25.6	25.2	25.9	25.7	26.4	26.9
	12H	24.1	24.7	24.6	25.2	25.7	25.3	25.9	25.8	26.4	26.9
12H	4H	23.2	23.9	23.6	24.4	24.9	24.3	25.1	24.8	25.5	26.0
	6H	23.8	24.5	24.4	24.9	25.5	25.1	25.7	25.6	26.2	26.7
	8H	24.1	24.7	24.6	25.1	25.7	25.3	25.9	25.8	26.4	26.9

Maximum UGR = 26.9

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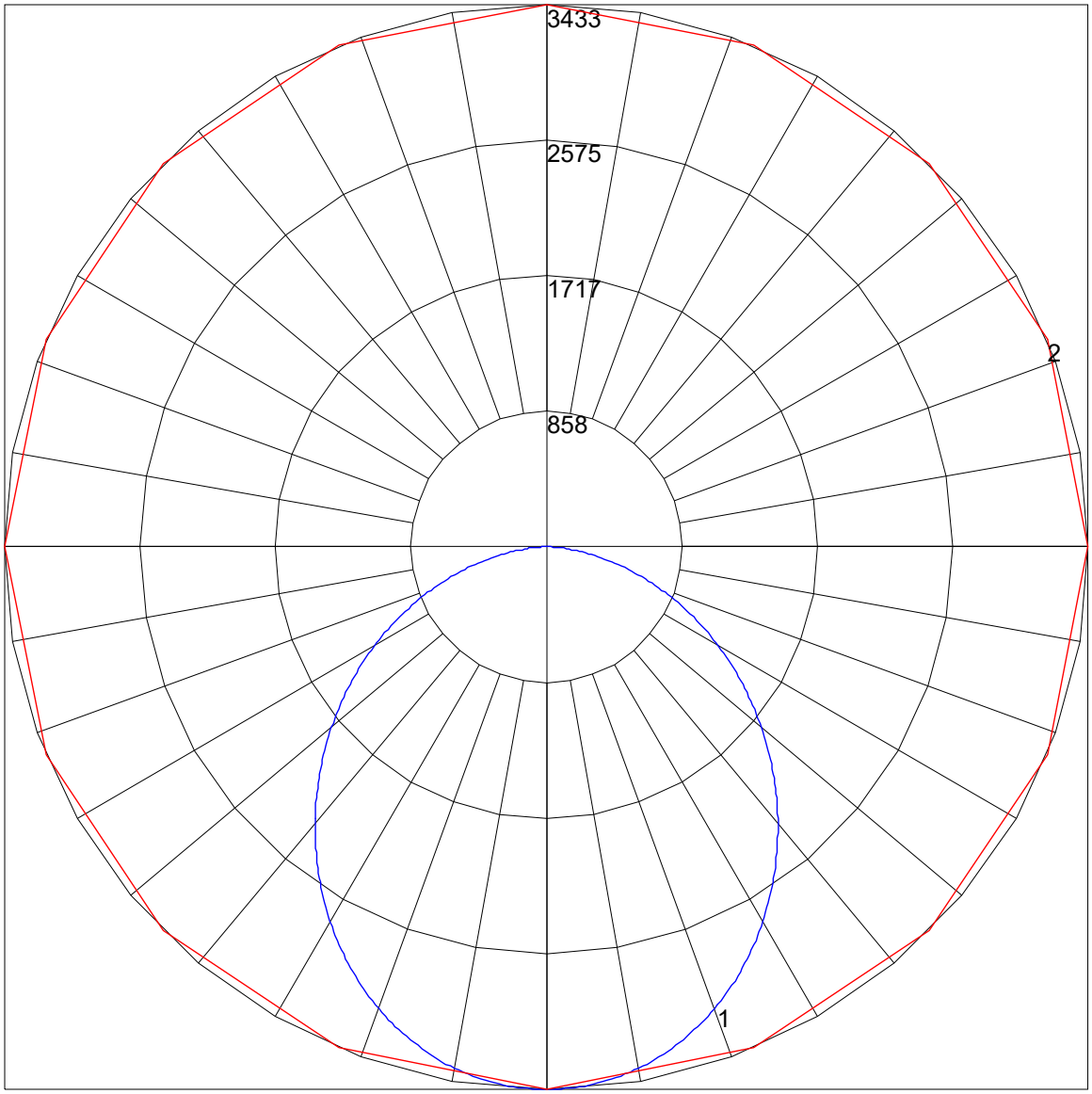
POLAR GRAPH



Maximum Candela = 3433.13 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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