



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 SEL45 UV FA 940 @850MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFR G2 14 SEL45 UV FA 940

[LUMINAIRE] Retrofit kit installed in an A.L.P. EF-1x4-2L-23GA 1x4 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMPCAT] Two LS3873A7_4000_90R 4000K 48 LED boards

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 850mA

[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	6190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	42.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7372	7914	8411
55	6814	7558	7985
65	6144	6864	7069
75	5161	5604	5314
85	3401	2040	1043

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	832.99	N.A.	13.50
0-30	1758.13	N.A.	28.40
0-40	2859.18	N.A.	46.20
0-60	4988.15	N.A.	80.60
0-80	6116.53	N.A.	98.80
0-90	6190.22	N.A.	100.00
10-90	5973.81	N.A.	96.50
20-40	2026.18	N.A.	32.70
20-50	3153.82	N.A.	50.90
40-70	2866.31	N.A.	46.30
60-80	1128.38	N.A.	18.20
70-80	391.04	N.A.	6.30
80-90	73.69	N.A.	1.20
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	6190.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	216.42
10-20	616.58
20-30	925.13
30-40	1101.05
40-50	1127.64
50-60	1001.33
60-70	737.34
70-80	391.04
80-90	73.69
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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UGR TABLE - CORRECTED

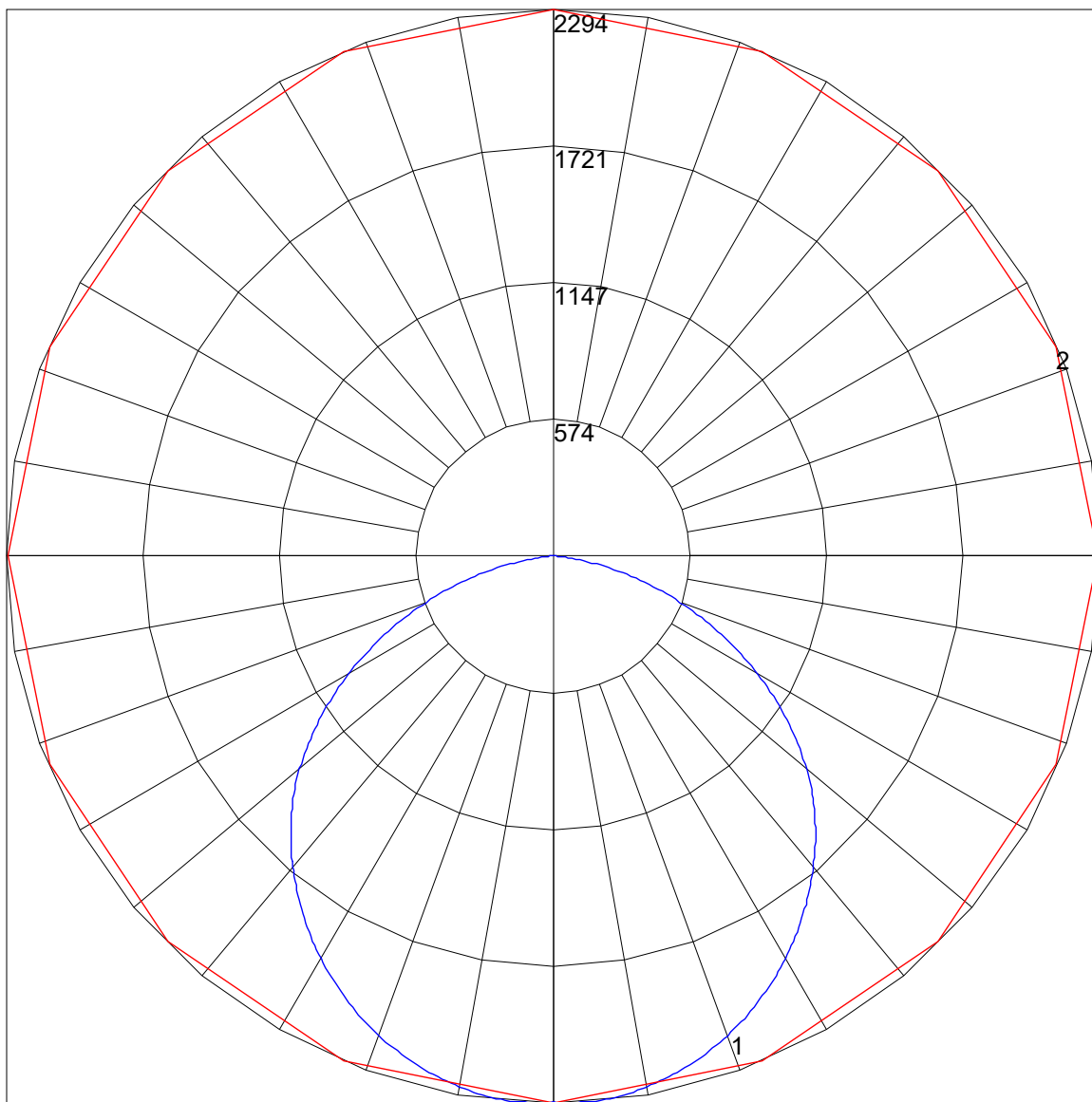
Reflectances

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	18.6	20.3	19.0	20.6	20.9	19.5	21.1	19.8	21.4	21.7
	3H	20.3	21.8	20.7	22.1	22.5	21.1	22.6	21.5	22.9	23.3
	4H	21.0	22.3	21.4	22.7	23.1	21.6	23.0	22.0	23.3	23.7
	6H	21.4	22.7	21.8	23.0	23.4	21.9	23.2	22.3	23.5	23.9
	8H	21.5	22.7	21.9	23.1	23.5	21.9	23.1	22.4	23.5	23.9
	12H	21.6	22.7	22.0	23.1	23.5	21.9	23.1	22.3	23.5	23.9
4H	2H	19.4	20.7	19.8	21.1	21.5	20.0	21.4	20.4	21.7	22.1
	3H	21.3	22.4	21.7	22.8	23.2	21.9	23.0	22.3	23.4	23.8
	4H	22.0	23.1	22.5	23.5	23.9	22.5	23.5	22.9	24.0	24.4
	6H	22.6	23.5	23.0	23.9	24.4	22.9	23.8	23.3	24.2	24.7
	8H	22.7	23.6	23.2	24.0	24.5	22.9	23.8	23.4	24.2	24.7
	12H	22.8	23.6	23.3	24.0	24.5	22.9	23.7	23.4	24.2	24.6
8H	4H	22.3	23.2	22.8	23.6	24.1	22.7	23.6	23.2	24.0	24.5
	6H	23.0	23.7	23.5	24.2	24.6	23.2	23.9	23.7	24.4	24.9
	8H	23.2	23.8	23.7	24.3	24.8	23.3	23.9	23.8	24.4	24.9
	12H	23.3	23.9	23.8	24.4	24.9	23.3	23.8	23.8	24.3	24.9
12H	4H	22.3	23.1	22.8	23.6	24.0	22.8	23.5	23.2	24.0	24.5
	6H	23.0	23.6	23.5	24.1	24.6	23.2	23.9	23.7	24.3	24.9
	8H	23.2	23.8	23.7	24.3	24.8	23.3	23.9	23.8	24.4	24.9

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 2294.49 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.)