

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P558703

Luminaire Tested: FSR-12-1-LD4-1LO-35-UNV-93-97-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSR-12-1-LD4-1LO-35-UNV-93-97-EDD
Description: 1X1 FSR TROFFER WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPER
GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 563.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

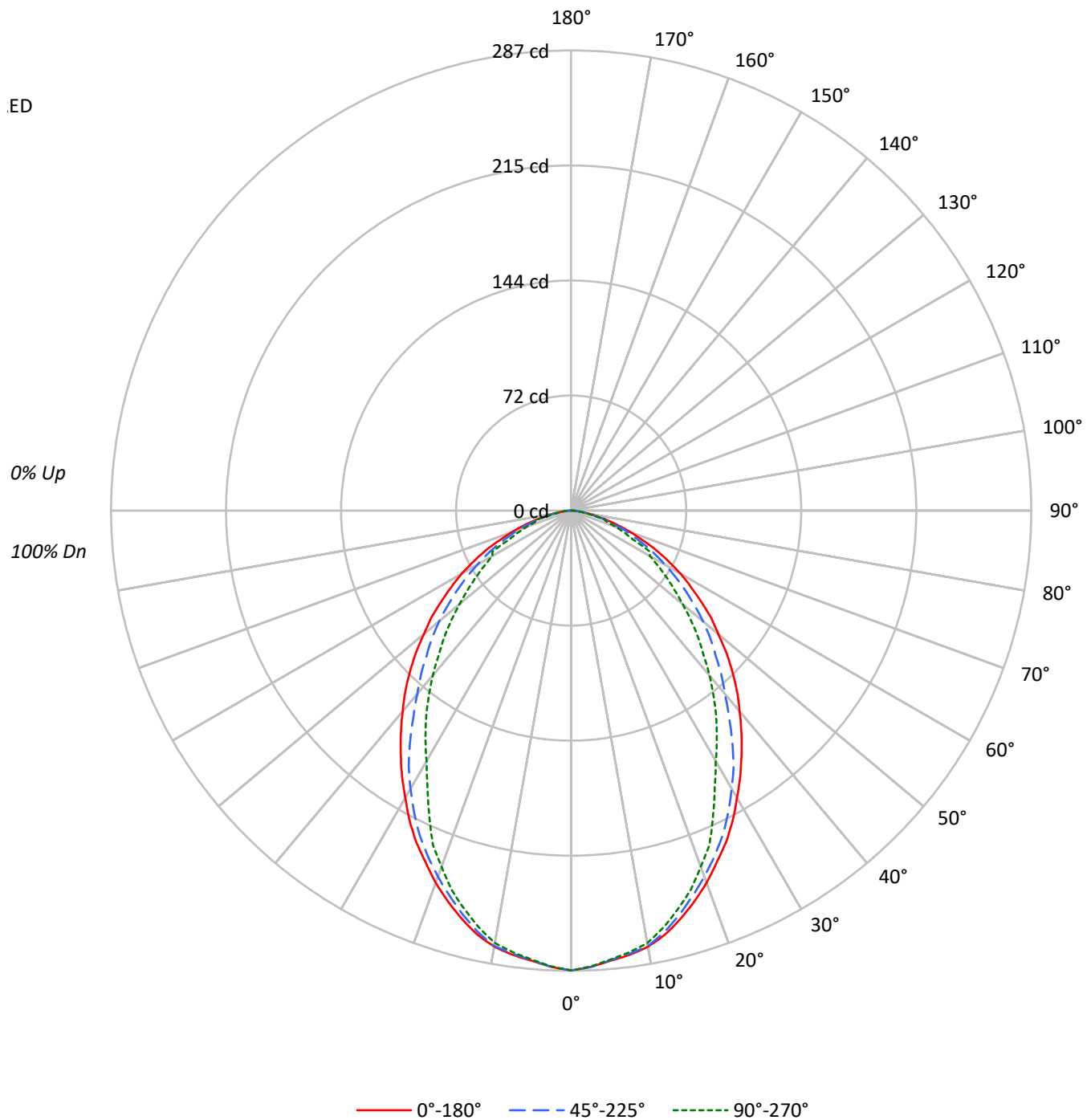
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3087	3087	3087
5°	3045	3042	3037
10°	3019	3014	2994
15°	2937	2907	2867
20°	2829	2783	2708
25°	2713	2654	2488
30°	2572	2490	2242
35°	2435	2301	2074
40°	2297	2096	1887
45°	2165	1938	1706
50°	2004	1798	1521
55°	1854	1631	1362
60°	1699	1455	1221
65°	1495	1276	1080
70°	1231	1117	919
75°	977	857	898
80°	657	614	576
85°	408	494	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	4.7
10°-20°	73.3	13.0
20°-30°	101.4	18.0
30°-40°	108.2	19.2
40°-50°	98.7	17.5
50°-60°	77.3	13.7
60°-70°	50.4	8.9
70°-80°	22.3	4.0
80°-90°	4.8	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	201.4	35.8
0°-40°	309.6	55.0
0°-60°	485.5	86.2
0°-90°	563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	287	287	287	287	287	
5°	282	282	282	281	281	27
15°	264	264	261	258	257	74
25°	228	227	224	216	210	105
35°	185	184	175	162	158	116
45°	142	139	127	117	112	110
55°	99	96	87	77	73	89
65°	59	55	50	51	42	58
75°	24	22	21	20	22	25
85°	3	4	4	4	5	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	286.8	286.8	286.8	286.8	286.8
2.5°	284.8	284.8	284.8	284.5	284.5
5°	281.8	281.5	281.5	281.1	281.1
7.5°	279.5	279.2	278.8	278.5	277.8
10°	276.2	276.2	275.8	274.2	273.9
12.5°	270.9	270.5	269.2	266.9	266.2
15°	263.6	263.6	260.9	258.3	257.3
17.5°	255.6	255.3	252.0	249.3	248.0
20°	247.0	246.3	243.0	238.7	236.4
22.5°	237.4	237.4	233.4	227.8	225.4
25°	228.4	227.1	223.5	215.5	209.5
27.5°	218.2	216.2	212.2	200.9	194.0
30°	206.9	205.9	200.3	185.7	180.4
32.5°	196.3	194.6	188.6	173.4	169.1
35°	185.3	184.0	175.1	161.8	157.8
37.5°	174.4	172.7	161.5	150.9	145.9
40°	163.5	161.5	149.2	139.6	134.3
42.5°	153.2	150.5	138.6	128.3	122.3
45°	142.2	139.2	127.3	116.7	112.1
47.5°	131.3	128.6	117.7	106.8	101.5
50°	119.7	117.4	107.4	96.5	90.8
52.5°	110.1	106.4	96.8	85.9	81.2
55°	98.8	95.8	86.9	76.6	72.6
57.5°	88.5	85.5	77.2	67.6	64.3
60°	78.9	74.6	67.6	59.3	56.7
62.5°	68.3	65.0	59.0	52.1	55.4
65°	58.7	55.4	50.1	51.1	42.4
67.5°	48.1	46.4	41.8	37.1	35.8
70°	39.1	37.1	35.5	30.5	29.2
72.5°	31.2	29.2	26.9	24.2	23.2
75°	23.5	21.9	20.6	19.6	21.6
77.5°	16.2	15.6	14.6	13.6	13.3
80°	10.6	10.3	9.9	9.6	9.3
82.5°	6.3	6.3	6.3	6.3	6.3
85°	3.3	3.6	4.0	4.3	4.6
87.5°	2.0	2.0	2.3	2.7	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)