

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: P558803

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-82-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558803
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-50-UNV-82-85-EDD
Description: 1X1 FSR TROFFER WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SI
LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 550.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

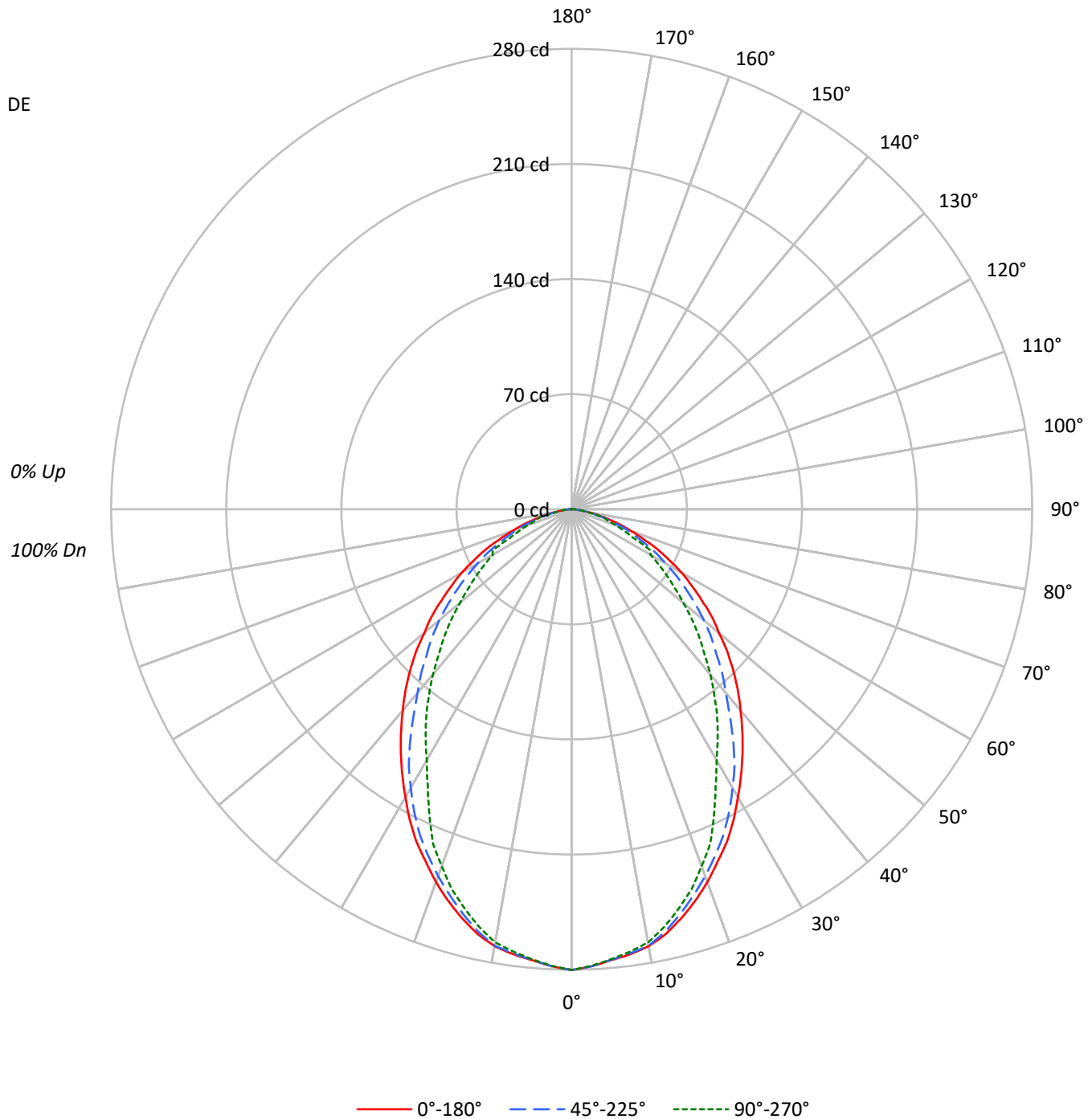
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	47	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°	3016	3016	3016
5°	2975	2971	2968
10°	2949	2946	2924
15°	2869	2841	2800
20°	2764	2719	2645
25°	2651	2593	2431
30°	2512	2431	2190
35°	2380	2247	2026
40°	2244	2047	1844
45°	2114	1894	1667
50°	1958	1757	1485
55°	1811	1593	1331
60°	1660	1423	1193
65°	1459	1245	1057
70°	1202	1092	897
75°	957	836	878
80°	645	601	564
85°	395	482	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	4.7
10°-20°	71.6	13.0
20°-30°	99.1	18.0
30°-40°	105.7	19.2
40°-50°	96.4	17.5
50°-60°	75.5	13.7
60°-70°	49.2	9.0
70°-80°	21.8	4.0
80°-90°	4.7	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°	196.7	35.8
0°-40°	302.4	55.0
0°-60°	474.3	86.2
0°-90°	550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	275	275	275	275	275	26
15°	258	258	255	252	251	72
25°	223	222	218	210	205	102
35°	181	180	171	158	154	113
45°	139	136	124	114	110	107
55°	96	94	85	75	71	87
65°	57	54	49	50	42	56
75°	23	21	20	19	21	25
85°	3	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	280.2	280.2	280.2	280.2	280.2
2.5°	278.2	278.2	278.2	277.9	277.9
5°	275.3	275.0	275.0	274.7	274.7
7.5°	273.0	272.7	272.4	272.1	271.4
10°	269.8	269.8	269.5	267.9	267.5
12.5°	264.6	264.3	263.0	260.7	260.1
15°	257.5	257.5	254.9	252.3	251.3
17.5°	249.7	249.4	246.2	243.6	242.3
20°	241.3	240.6	237.4	233.2	230.9
22.5°	231.9	231.9	228.0	222.5	220.2
25°	223.2	221.9	218.3	210.5	204.7
27.5°	213.1	211.2	207.3	196.3	189.5
30°	202.1	201.1	195.6	181.4	176.2
32.5°	191.7	190.1	184.3	169.4	165.2
35°	181.1	179.8	171.0	158.1	154.2
37.5°	170.4	168.7	157.7	147.4	142.5
40°	159.7	157.7	145.7	136.4	131.2
42.5°	149.6	147.0	135.4	125.3	119.5
45°	138.9	136.0	124.4	114.0	109.5
47.5°	128.3	125.7	115.0	104.3	99.1
50°	116.9	114.7	104.9	94.3	88.7
52.5°	107.5	104.0	94.6	83.9	79.4
55°	96.5	93.6	84.9	74.8	70.9
57.5°	86.5	83.6	75.5	66.1	62.8
60°	77.1	72.9	66.1	58.0	55.4
62.5°	66.7	63.5	57.7	50.9	54.1
65°	57.3	54.1	48.9	49.9	41.5
67.5°	47.0	45.3	40.8	36.3	35.0
70°	38.2	36.3	34.7	29.8	28.5
72.5°	30.4	28.5	26.2	23.6	22.7
75°	23.0	21.4	20.1	19.1	21.1
77.5°	15.9	15.2	14.3	13.3	13.0
80°	10.4	10.0	9.7	9.4	9.1
82.5°	6.2	6.2	6.2	6.2	6.2
85°	3.2	3.6	3.9	4.2	4.5
87.5°	1.9	1.9	2.3	2.6	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)