

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: P558483

Luminaire Tested: FSR-12-1-LD4-1HI-35-UNV-82-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558483
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-LD4-1HI-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

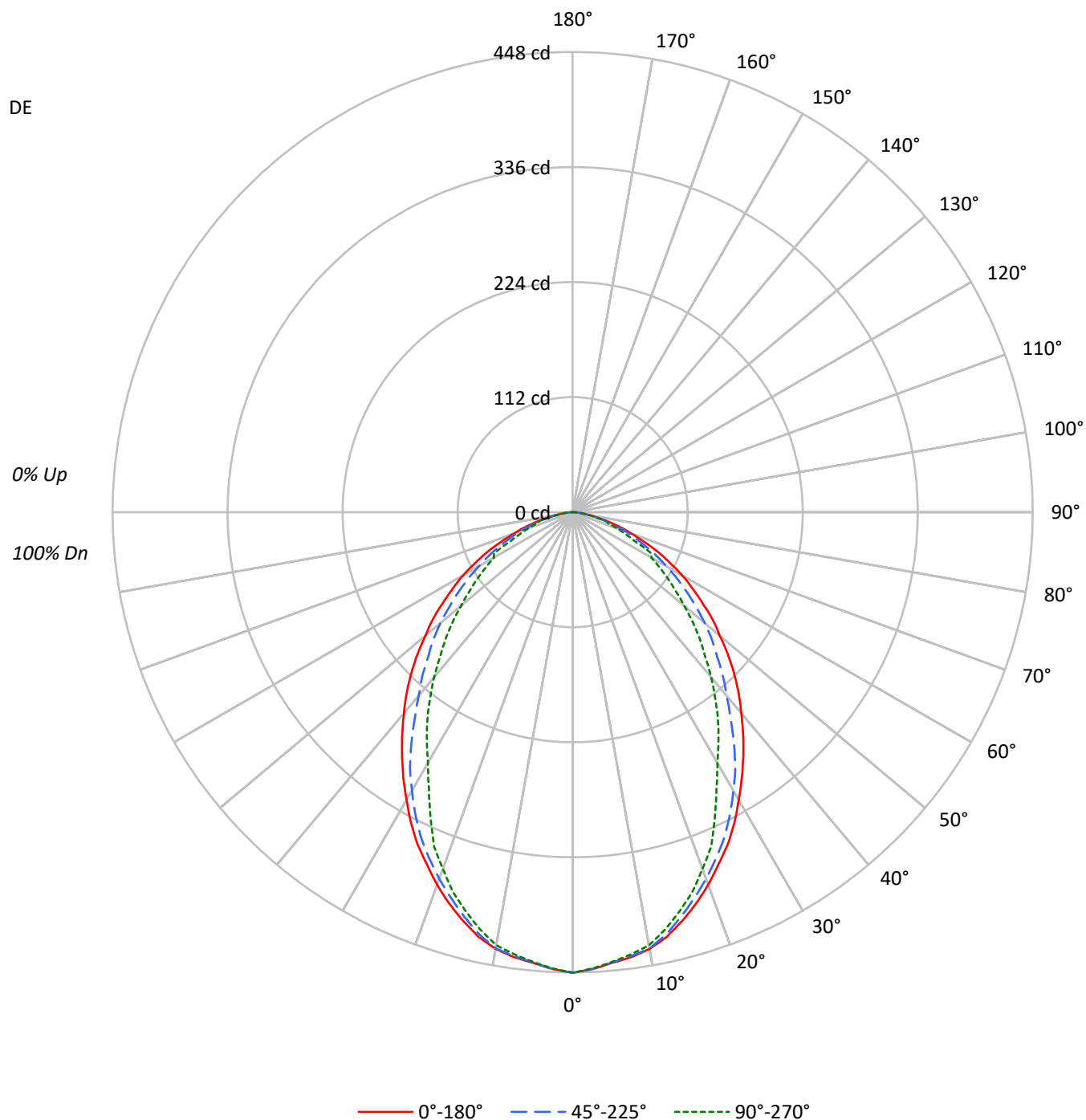
Input Watts (W): 10.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4825	4825	4825
5°	4760	4754	4749
10°	4718	4713	4678
15°	4591	4544	4481
20°	4423	4352	4233
25°	4241	4149	3890
30°	4020	3890	3504
35°	3807	3595	3242
40°	3590	3277	2949
45°	3384	3029	2667
50°	3133	2812	2378
55°	2898	2548	2130
60°	2654	2275	1907
65°	2336	1994	1689
70°	1923	1744	1435
75°	1530	1335	1402
80°	1029	961	899
85°	642	766	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	4.7
10°-20°	114.5	13.0
20°-30°	158.5	18.0
30°-40°	169.1	19.2
40°-50°	154.2	17.5
50°-60°	120.8	13.7
60°-70°	78.7	8.9
70°-80°	34.9	4.0
80°-90°	7.5	0.8
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°	314.8	35.8
0°-40°	483.8	55.0
0°-60°	758.9	86.2
0°-90°	880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	440	440	440	440	440	42
15°	412	412	408	404	402	116
25°	357	355	349	337	328	164
35°	290	288	274	253	247	181
45°	222	218	199	182	175	171
55°	154	150	136	120	114	139
65°	92	86	78	80	66	90
75°	37	34	32	31	34	39
85°	5	6	6	7	7	7
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.3	448.3	448.3	448.3	448.3
2.5°	445.2	445.2	445.2	444.6	444.6
5°	440.5	440.0	440.0	439.5	439.5
7.5°	436.9	436.3	435.8	435.3	434.3
10°	431.7	431.7	431.2	428.6	428.0
12.5°	423.4	422.9	420.8	417.2	416.1
15°	412.0	412.0	407.8	403.7	402.1
17.5°	399.5	399.0	393.8	389.7	387.6
20°	386.1	385.0	379.9	373.1	369.5
22.5°	371.0	371.0	364.8	356.0	352.4
25°	357.1	355.0	349.3	336.8	327.5
27.5°	341.0	337.9	331.7	314.0	303.2
30°	323.4	321.8	313.0	290.2	281.9
32.5°	306.8	304.2	294.9	271.0	264.3
35°	289.7	287.6	273.6	252.9	246.7
37.5°	272.6	270.0	252.4	235.8	228.0
40°	255.5	252.4	233.2	218.2	209.9
42.5°	239.4	235.3	216.6	200.6	191.2
45°	222.3	217.7	199.0	182.4	175.2
47.5°	205.2	201.1	184.0	166.9	158.6
50°	187.1	183.4	167.9	150.8	142.0
52.5°	172.0	166.3	151.3	134.2	127.0
55°	154.4	149.8	135.8	119.7	113.5
57.5°	138.4	133.7	120.7	105.7	100.5
60°	123.3	116.6	105.7	92.8	88.6
62.5°	106.8	101.6	92.2	81.4	86.5
65°	91.7	86.5	78.3	79.8	66.3
67.5°	75.1	72.6	65.3	58.0	56.0
70°	61.1	58.0	55.4	47.7	45.6
72.5°	48.7	45.6	42.0	37.8	36.3
75°	36.8	34.2	32.1	30.6	33.7
77.5°	25.4	24.4	22.8	21.2	20.7
80°	16.6	16.1	15.5	15.0	14.5
82.5°	9.8	9.8	9.8	9.8	9.8
85°	5.2	5.7	6.2	6.7	7.3
87.5°	3.1	3.1	3.6	4.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)