

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: P559379

Luminaire Tested: FSR-12-1-LD4-2LO-50-UNV-82-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P559379
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-LD4-2LO-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: 1100.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

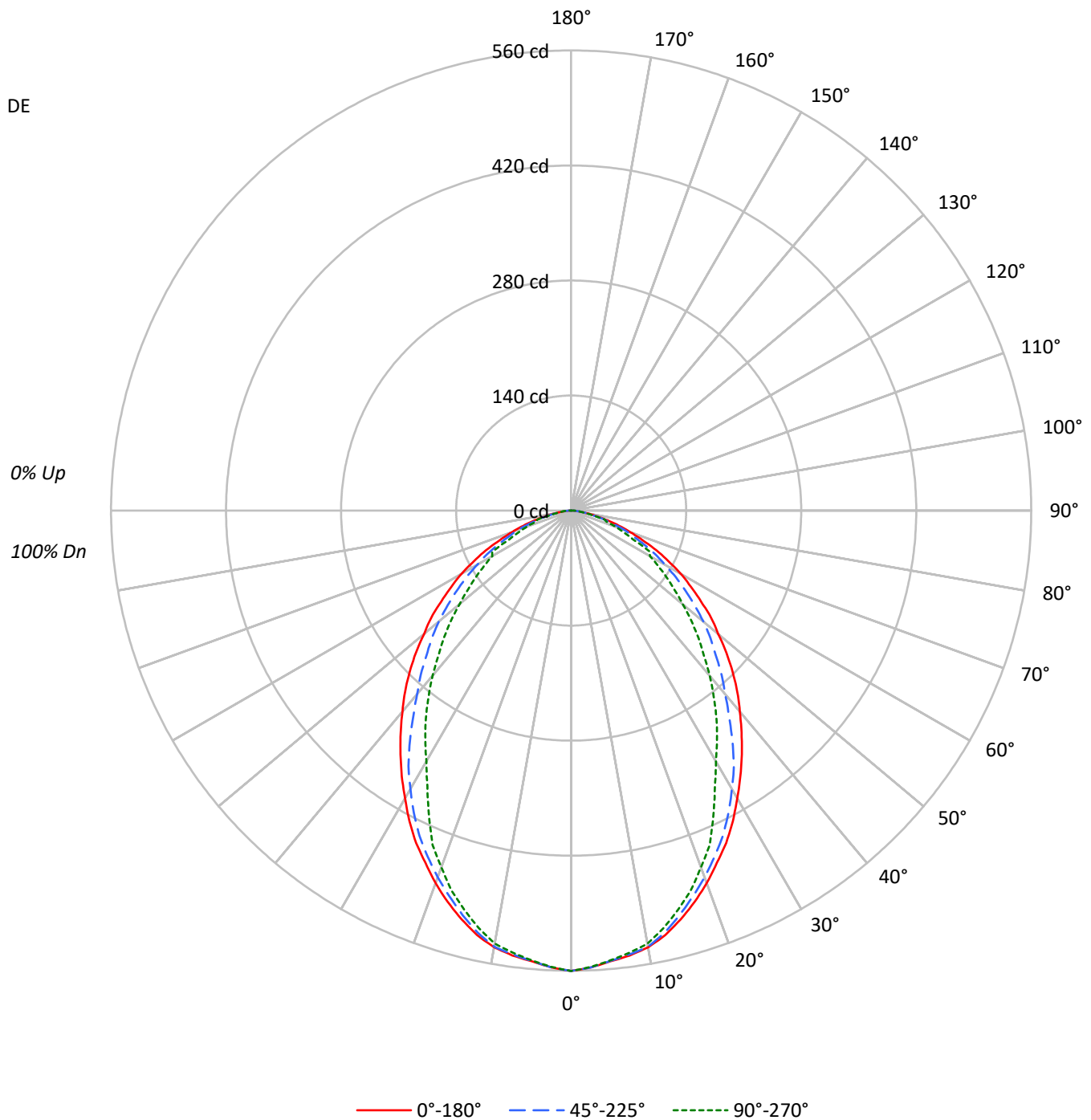
Input Watts (W): 11.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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					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°	6031	6031	6031
5°	5949	5943	5935
10°	5898	5890	5849
15°	5739	5681	5602
20°	5528	5439	5291
25°	5301	5185	4862
30°	5024	4864	4380
35°	4758	4494	4051
40°	4488	4096	3686
45°	4230	3786	3332
50°	3915	3515	2972
55°	3622	3185	2663
60°	3320	2844	2385
65°	2921	2491	2111
70°	2404	2181	1794
75°	1913	1672	1751
80°	1283	1203	1122
85°	803	963	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	4.7
10°-20°	143.1	13.0
20°-30°	198.2	18.0
30°-40°	211.3	19.2
40°-50°	192.8	17.5
50°-60°	151.0	13.7
60°-70°	98.4	8.9
70°-80°	43.6	4.0
80°-90°	9.4	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°	393.5	35.8
0°-40°	604.8	55.0
0°-60°	948.6	86.2
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	551	550	550	549	549	52
15°	515	515	510	505	503	145
25°	446	444	437	421	409	205
35°	362	360	342	316	308	226
45°	278	272	249	228	219	214
55°	193	187	170	150	142	173
65°	115	108	98	100	83	113
75°	46	43	40	38	42	49
85°	6	7	8	8	9	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560.3	560.3	560.3	560.3	560.3
2.5°	556.4	556.4	556.4	555.8	555.8
5°	550.6	550.0	550.0	549.3	549.3
7.5°	546.1	545.4	544.8	544.1	542.8
10°	539.6	539.6	538.9	535.7	535.1
12.5°	529.2	528.6	526.0	521.5	520.2
15°	515.0	515.0	509.8	504.6	502.7
17.5°	499.4	498.8	492.3	487.1	484.5
20°	482.6	481.3	474.8	466.4	461.9
22.5°	463.8	463.8	456.0	445.0	440.5
25°	446.3	443.7	436.6	421.1	409.4
27.5°	426.2	422.3	414.6	392.6	378.9
30°	404.2	402.3	391.3	362.8	352.4
32.5°	383.5	380.2	368.6	338.8	330.4
35°	362.1	359.5	342.0	316.1	308.3
37.5°	340.7	337.5	315.5	294.7	285.0
40°	319.4	315.5	291.5	272.7	262.3
42.5°	299.3	294.1	270.8	250.7	239.0
45°	277.9	272.1	248.7	228.0	218.9
47.5°	256.5	251.3	230.0	208.6	198.2
50°	233.8	229.3	209.9	188.5	177.5
52.5°	215.1	207.9	189.2	167.8	158.7
55°	193.0	187.2	169.7	149.6	141.9
57.5°	173.0	167.1	150.9	132.1	125.7
60°	154.2	145.7	132.1	116.0	110.8
62.5°	133.4	127.0	115.3	101.7	108.2
65°	114.7	108.2	97.8	99.8	82.9
67.5°	93.9	90.7	81.6	72.6	70.0
70°	76.4	72.6	69.3	59.6	57.0
72.5°	60.9	57.0	52.5	47.3	45.3
75°	46.0	42.8	40.2	38.2	42.1
77.5°	31.7	30.4	28.5	26.6	25.9
80°	20.7	20.1	19.4	18.8	18.1
82.5°	12.3	12.3	12.3	12.3	12.3
85°	6.5	7.1	7.8	8.4	9.1
87.5°	3.9	3.9	4.5	5.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)