

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: P559933

Luminaire Tested: FSR-12-2-LD4-1LO-50-UNV-80-96-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P559933
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-12-2-LD4-1LO-50-UNV-80-96-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED G ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1160.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

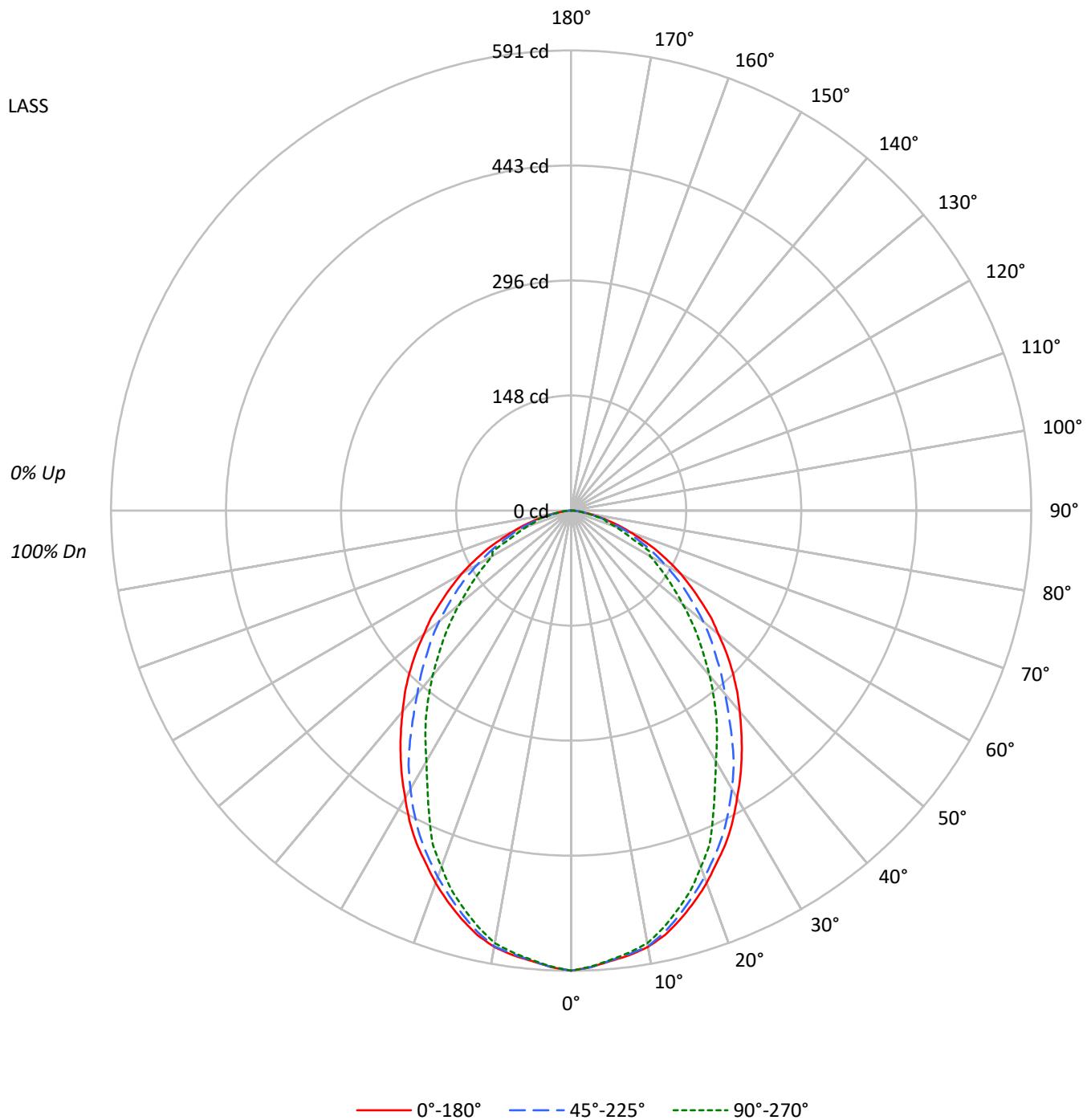
Input Watts (W): 11.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3180	3180	3180
5°	3137	3133	3130
10°	3110	3106	3083
15°	3026	2995	2954
20°	2915	2868	2790
25°	2795	2734	2564
30°	2649	2564	2309
35°	2509	2370	2137
40°	2366	2160	1944
45°	2231	1996	1757
50°	2065	1853	1567
55°	1910	1680	1404
60°	1750	1500	1257
65°	1540	1313	1113
70°	1268	1150	946
75°	1009	882	923
80°	679	635	592
85°	420	506	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	4.7
10°-20°	151.0	13.0
20°-30°	209.0	18.0
30°-40°	222.8	19.2
40°-50°	203.3	17.5
50°-60°	159.3	13.7
60°-70°	103.8	8.9
70°-80°	46.0	4.0
80°-90°	9.9	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°	414.9	35.8
0°-40°	637.8	55.0
0°-60°	1000.4	86.2
0°-90°	1160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	581	580	580	579	579	55
15°	543	543	538	532	530	153
25°	471	468	460	444	432	216
35°	382	379	361	333	325	239
45°	293	287	262	240	231	226
55°	204	197	179	158	150	183
65°	121	114	103	105	87	119
75°	48	45	42	40	44	52
85°	7	8	8	9	10	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.9	590.9	590.9	590.9	590.9
2.5°	586.8	586.8	586.8	586.1	586.1
5°	580.6	580.0	580.0	579.3	579.3
7.5°	575.9	575.2	574.5	573.8	572.4
10°	569.0	569.0	568.3	564.9	564.2
12.5°	558.1	557.4	554.7	549.9	548.5
15°	543.1	543.1	537.6	532.1	530.1
17.5°	526.7	526.0	519.2	513.7	511.0
20°	508.9	507.5	500.7	491.8	487.1
22.5°	489.1	489.1	480.9	469.3	464.5
25°	470.7	467.9	460.4	444.0	431.7
27.5°	449.5	445.4	437.2	414.0	399.6
30°	426.3	424.2	412.6	382.5	371.6
32.5°	404.4	401.0	388.7	357.3	348.4
35°	381.9	379.1	360.7	333.4	325.2
37.5°	359.3	355.9	332.7	310.8	300.6
40°	336.8	332.7	307.4	287.6	276.7
42.5°	315.6	310.1	285.5	264.4	252.1
45°	293.1	286.9	262.3	240.5	230.9
47.5°	270.5	265.0	242.5	220.0	209.0
50°	246.6	241.8	221.3	198.8	187.2
52.5°	226.8	219.3	199.5	176.9	167.4
55°	203.6	197.4	179.0	157.8	149.6
57.5°	182.4	176.2	159.2	139.4	132.5
60°	162.6	153.7	139.4	122.3	116.8
62.5°	140.7	133.9	121.6	107.2	114.1
65°	120.9	114.1	103.1	105.2	87.4
67.5°	99.1	95.6	86.1	76.5	73.8
70°	80.6	76.5	73.1	62.8	60.1
72.5°	64.2	60.1	55.3	49.9	47.8
75°	48.5	45.1	42.4	40.3	44.4
77.5°	33.5	32.1	30.1	28.0	27.3
80°	21.9	21.2	20.5	19.8	19.1
82.5°	13.0	13.0	13.0	13.0	13.0
85°	6.8	7.5	8.2	8.9	9.6
87.5°	4.1	4.1	4.8	5.5	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)