

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: P558831

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-93-97-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558831
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-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 578.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

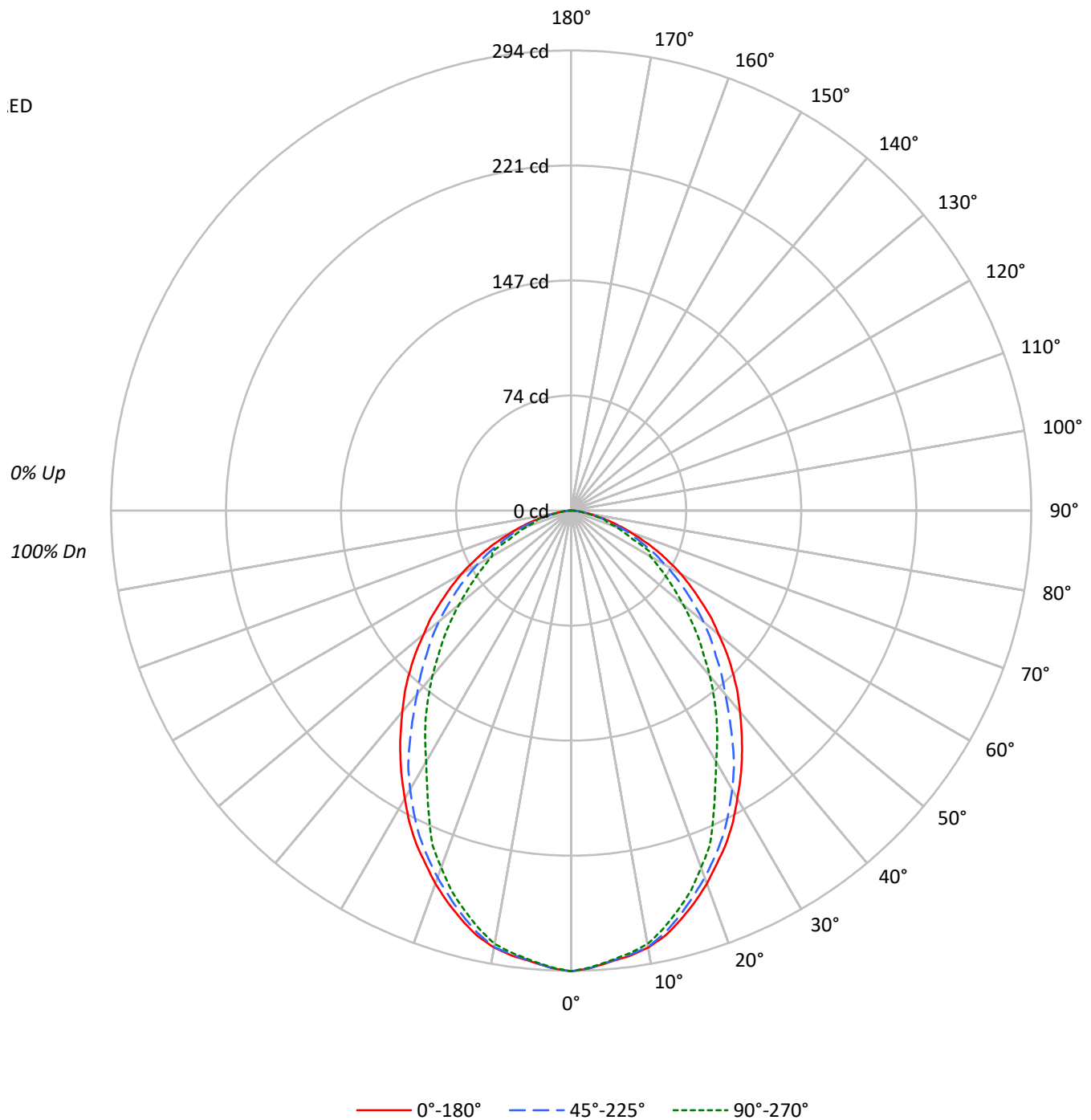
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3169	3169	3169
5°	3126	3123	3118
10°	3099	3095	3074
15°	3015	2985	2943
20°	2905	2858	2780
25°	2785	2725	2555
30°	2640	2555	2302
35°	2501	2361	2129
40°	2358	2153	1938
45°	2222	1990	1751
50°	2058	1847	1562
55°	1903	1674	1398
60°	1744	1494	1253
65°	1533	1309	1110
70°	1265	1146	944
75°	1006	878	919
80°	676	632	589
85°	420	506	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	4.7
10°-20°	75.2	13.0
20°-30°	104.1	18.0
30°-40°	111.0	19.2
40°-50°	101.3	17.5
50°-60°	79.4	13.7
60°-70°	51.7	8.9
70°-80°	22.9	4.0
80°-90°	4.9	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°	206.8	35.8
0°-40°	317.8	55.0
0°-60°	498.4	86.2
0°-90°	578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	289	289	289	289	289	27
15°	271	271	268	265	264	76
25°	234	233	229	221	215	108
35°	190	189	180	166	162	119
45°	146	143	131	120	115	112
55°	101	98	89	79	74	91
65°	60	57	51	52	44	59
75°	24	22	21	20	22	26
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°	294.4	294.4	294.4	294.4	294.4
2.5°	292.4	292.4	292.4	292.0	292.0
5°	289.3	289.0	289.0	288.6	288.6
7.5°	286.9	286.6	286.3	285.9	285.2
10°	283.5	283.5	283.2	281.5	281.2
12.5°	278.1	277.7	276.4	274.0	273.3
15°	270.6	270.6	267.9	265.2	264.1
17.5°	262.4	262.1	258.7	256.0	254.6
20°	253.6	252.9	249.5	245.1	242.7
22.5°	243.7	243.7	239.6	233.8	231.5
25°	234.5	233.2	229.4	221.2	215.1
27.5°	224.0	221.9	217.8	206.3	199.1
30°	212.4	211.4	205.6	190.6	185.2
32.5°	201.5	199.8	193.7	178.0	173.6
35°	190.3	188.9	179.7	166.1	162.0
37.5°	179.0	177.3	165.8	154.9	149.8
40°	167.8	165.8	153.2	143.3	137.9
42.5°	157.3	154.5	142.3	131.7	125.6
45°	146.0	143.0	130.7	119.8	115.0
47.5°	134.8	132.1	120.8	109.6	104.2
50°	122.9	120.5	110.3	99.0	93.3
52.5°	113.0	109.3	99.4	88.2	83.4
55°	101.4	98.4	89.2	78.6	74.5
57.5°	90.9	87.8	79.3	69.4	66.0
60°	81.0	76.6	69.4	60.9	58.2
62.5°	70.1	66.7	60.6	53.4	56.8
65°	60.2	56.8	51.4	52.4	43.6
67.5°	49.4	47.7	42.9	38.1	36.8
70°	40.2	38.1	36.4	31.3	30.0
72.5°	32.0	30.0	27.6	24.8	23.8
75°	24.2	22.5	21.1	20.1	22.1
77.5°	16.7	16.0	15.0	14.0	13.6
80°	10.9	10.6	10.2	9.9	9.5
82.5°	6.5	6.5	6.5	6.5	6.5
85°	3.4	3.7	4.1	4.4	4.8
87.5°	2.0	2.0	2.4	2.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)