

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: P558867

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

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558867
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-LD4-1STD-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: 717.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

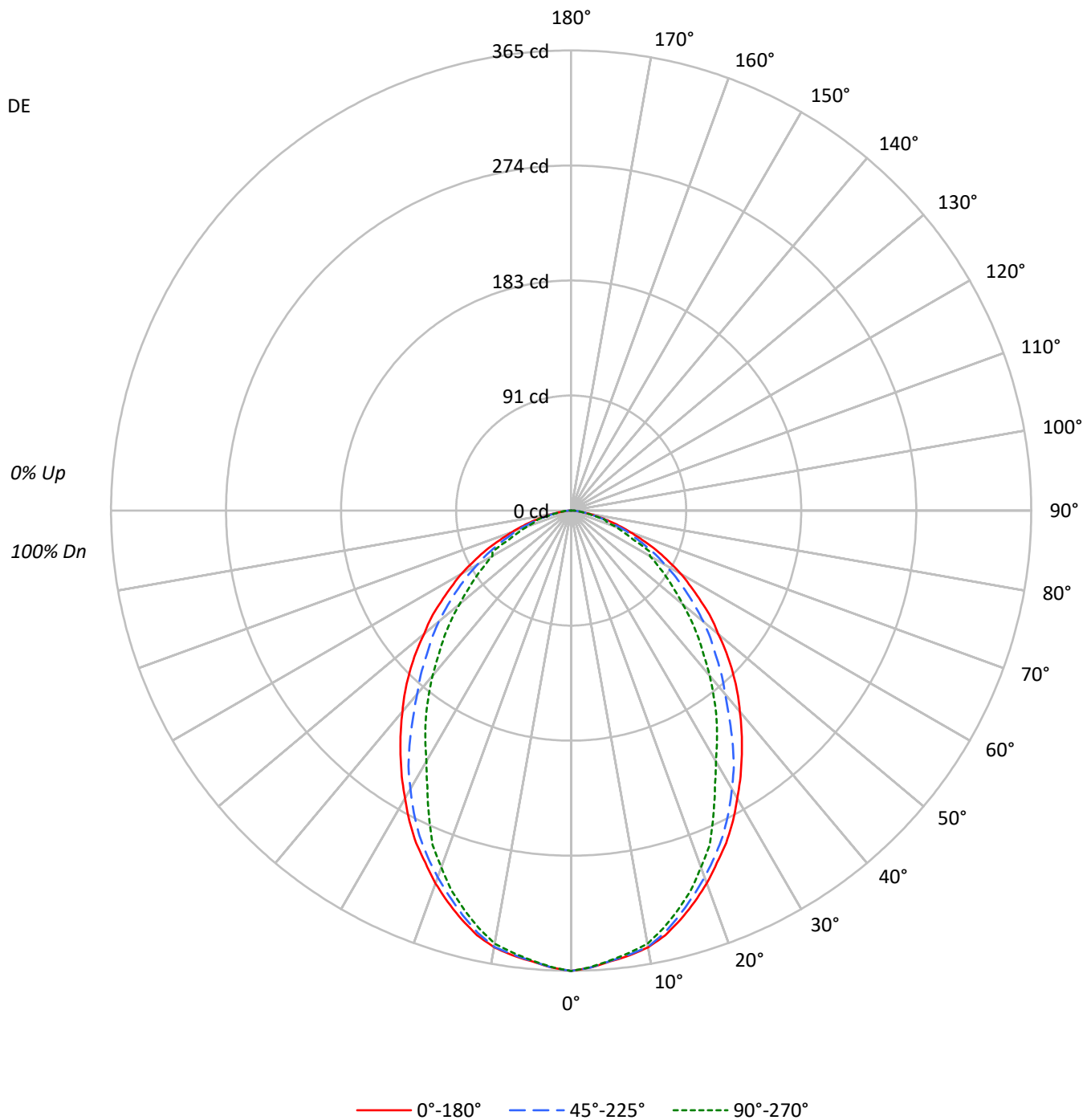
Input Watts (W): 8.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	3931	3931	3931
5°	3878	3874	3869
10°	3844	3840	3812
15°	3741	3703	3652
20°	3604	3545	3449
25°	3455	3380	3170
30°	3275	3169	2855
35°	3101	2929	2641
40°	2925	2670	2403
45°	2757	2468	2172
50°	2552	2291	1937
55°	2361	2076	1736
60°	2164	1854	1554
65°	1903	1625	1375
70°	1567	1423	1171
75°	1248	1090	1140
80°	837	787	731
85°	519	630	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	4.7
10°-20°	93.3	13.0
20°-30°	129.2	18.0
30°-40°	137.7	19.2
40°-50°	125.7	17.5
50°-60°	98.4	13.7
60°-70°	64.2	8.9
70°-80°	28.4	4.0
80°-90°	6.1	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°	256.5	35.8
0°-40°	394.2	55.0
0°-60°	618.3	86.2
0°-90°	717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	365	365	365	365	365	
5°	359	358	358	358	358	34
15°	336	336	332	329	328	94
25°	291	289	285	274	267	134
35°	236	234	223	206	201	148
45°	181	177	162	149	143	140
55°	126	122	111	98	92	113
65°	75	70	64	65	54	74
75°	30	28	26	25	27	32
85°	4	5	5	6	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	365.2	365.2	365.2	365.2	365.2
2.5°	362.7	362.7	362.7	362.3	362.3
5°	358.9	358.5	358.5	358.1	358.1
7.5°	355.9	355.5	355.1	354.7	353.8
10°	351.7	351.7	351.3	349.2	348.8
12.5°	345.0	344.5	342.9	339.9	339.1
15°	335.7	335.7	332.3	328.9	327.7
17.5°	325.5	325.1	320.9	317.5	315.8
20°	314.6	313.7	309.5	304.0	301.1
22.5°	302.3	302.3	297.3	290.1	287.1
25°	290.9	289.2	284.6	274.5	266.9
27.5°	277.8	275.3	270.2	255.9	247.0
30°	263.5	262.2	255.0	236.4	229.7
32.5°	250.0	247.8	240.2	220.8	215.3
35°	236.0	234.3	222.9	206.0	201.0
37.5°	222.1	220.0	205.6	192.1	185.8
40°	208.2	205.6	190.0	177.8	171.0
42.5°	195.1	191.7	176.5	163.4	155.8
45°	181.1	177.3	162.1	148.6	142.7
47.5°	167.2	163.8	149.9	136.0	129.2
50°	152.4	149.5	136.8	122.9	115.7
52.5°	140.2	135.5	123.3	109.4	103.4
55°	125.8	122.0	110.6	97.5	92.5
57.5°	112.7	108.9	98.4	86.1	81.9
60°	100.5	95.0	86.1	75.6	72.2
62.5°	87.0	82.8	75.2	66.3	70.5
65°	74.7	70.5	63.8	65.0	54.0
67.5°	61.2	59.1	53.2	47.3	45.6
70°	49.8	47.3	45.2	38.8	37.2
72.5°	39.7	37.2	34.2	30.8	29.6
75°	30.0	27.9	26.2	24.9	27.4
77.5°	20.7	19.8	18.6	17.3	16.9
80°	13.5	13.1	12.7	12.2	11.8
82.5°	8.0	8.0	8.0	8.0	8.0
85°	4.2	4.6	5.1	5.5	5.9
87.5°	2.5	2.5	3.0	3.4	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)