

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: P558647

Luminaire Tested: FSR-12-1-LD4-1LO-35-UNV-80-87-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558647
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-35-UNV-80-87-EDD
Description: 1X1 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

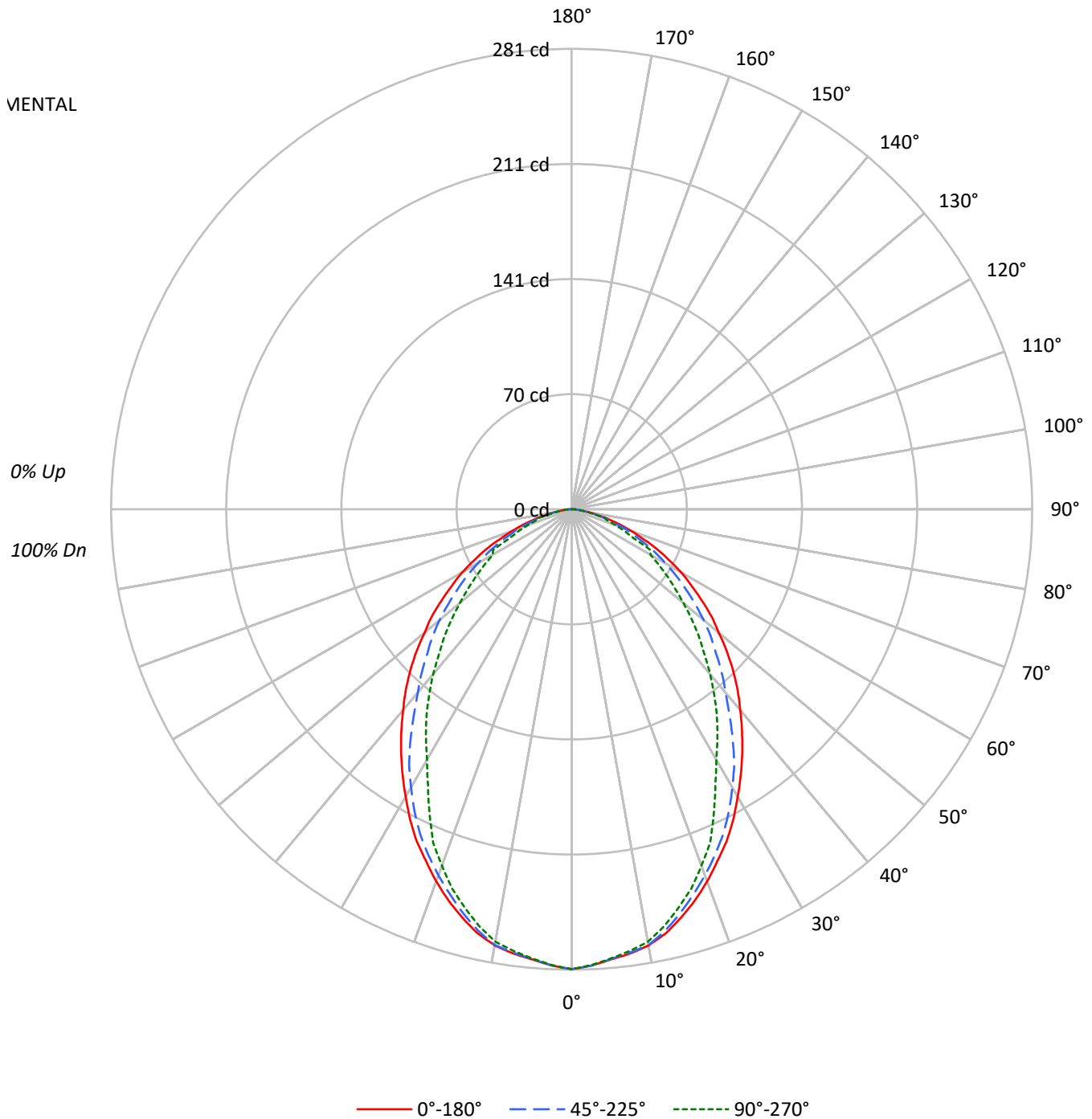
Lumens per Lamp: N/A
Luminaire Lumens: 551.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3021	3021	3021
5°	2980	2977	2974
10°	2954	2951	2929
15°	2875	2846	2806
20°	2769	2724	2651
25°	2656	2597	2436
30°	2517	2436	2194
35°	2384	2251	2030
40°	2248	2051	1846
45°	2119	1897	1670
50°	1961	1760	1489
55°	1815	1595	1334
60°	1662	1425	1195
65°	1462	1248	1057
70°	1205	1092	900
75°	957	836	878
80°	645	601	564
85°	395	482	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	4.7
10°-20°	71.7	13.0
20°-30°	99.3	18.0
30°-40°	105.8	19.2
40°-50°	96.6	17.5
50°-60°	75.6	13.7
60°-70°	49.3	8.9
70°-80°	21.8	4.0
80°-90°	4.7	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°	197.1	35.8
0°-40°	302.9	55.0
0°-60°	475.2	86.2
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	281	281	281	281	281	
5°	276	276	276	275	275	26
15°	258	258	255	253	252	73
25°	224	222	219	211	205	103
35°	181	180	171	158	154	113
45°	139	136	125	114	110	107
55°	97	94	85	75	71	87
65°	57	54	49	50	42	57
75°	23	21	20	19	21	25
85°	3	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	280.7	280.7	280.7	280.7	280.7
2.5°	278.7	278.7	278.7	278.4	278.4
5°	275.8	275.5	275.5	275.2	275.2
7.5°	273.5	273.2	272.9	272.6	271.9
10°	270.3	270.3	270.0	268.3	268.0
12.5°	265.1	264.8	263.5	261.2	260.6
15°	258.0	258.0	255.4	252.8	251.8
17.5°	250.2	249.8	246.6	244.0	242.7
20°	241.7	241.1	237.8	233.6	231.4
22.5°	232.3	232.3	228.4	222.9	220.6
25°	223.6	222.3	218.7	210.9	205.1
27.5°	213.5	211.6	207.7	196.6	189.8
30°	202.5	201.5	196.0	181.7	176.5
32.5°	192.1	190.5	184.6	169.7	165.5
35°	181.4	180.1	171.3	158.3	154.5
37.5°	170.7	169.1	158.0	147.6	142.8
40°	160.0	158.0	146.0	136.6	131.4
42.5°	149.9	147.3	135.6	125.6	119.7
45°	139.2	136.3	124.6	114.2	109.7
47.5°	128.5	125.9	115.2	104.5	99.3
50°	117.1	114.9	105.1	94.4	88.9
52.5°	107.7	104.2	94.7	84.0	79.5
55°	96.7	93.8	85.0	75.0	71.1
57.5°	86.6	83.7	75.6	66.2	62.9
60°	77.2	73.0	66.2	58.1	55.5
62.5°	66.8	63.6	57.8	50.9	54.2
65°	57.4	54.2	49.0	50.0	41.5
67.5°	47.0	45.4	40.9	36.3	35.0
70°	38.3	36.3	34.7	29.9	28.6
72.5°	30.5	28.6	26.3	23.7	22.7
75°	23.0	21.4	20.1	19.1	21.1
77.5°	15.9	15.3	14.3	13.3	13.0
80°	10.4	10.1	9.7	9.4	9.1
82.5°	6.2	6.2	6.2	6.2	6.2
85°	3.2	3.6	3.9	4.2	4.5
87.5°	1.9	1.9	2.3	2.6	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)