

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: P558645

Luminaire Tested: FSR-12-1-LD4-1LO-35-UNV-80-86-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558645
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-80-86-EDD
Description: 1X1 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

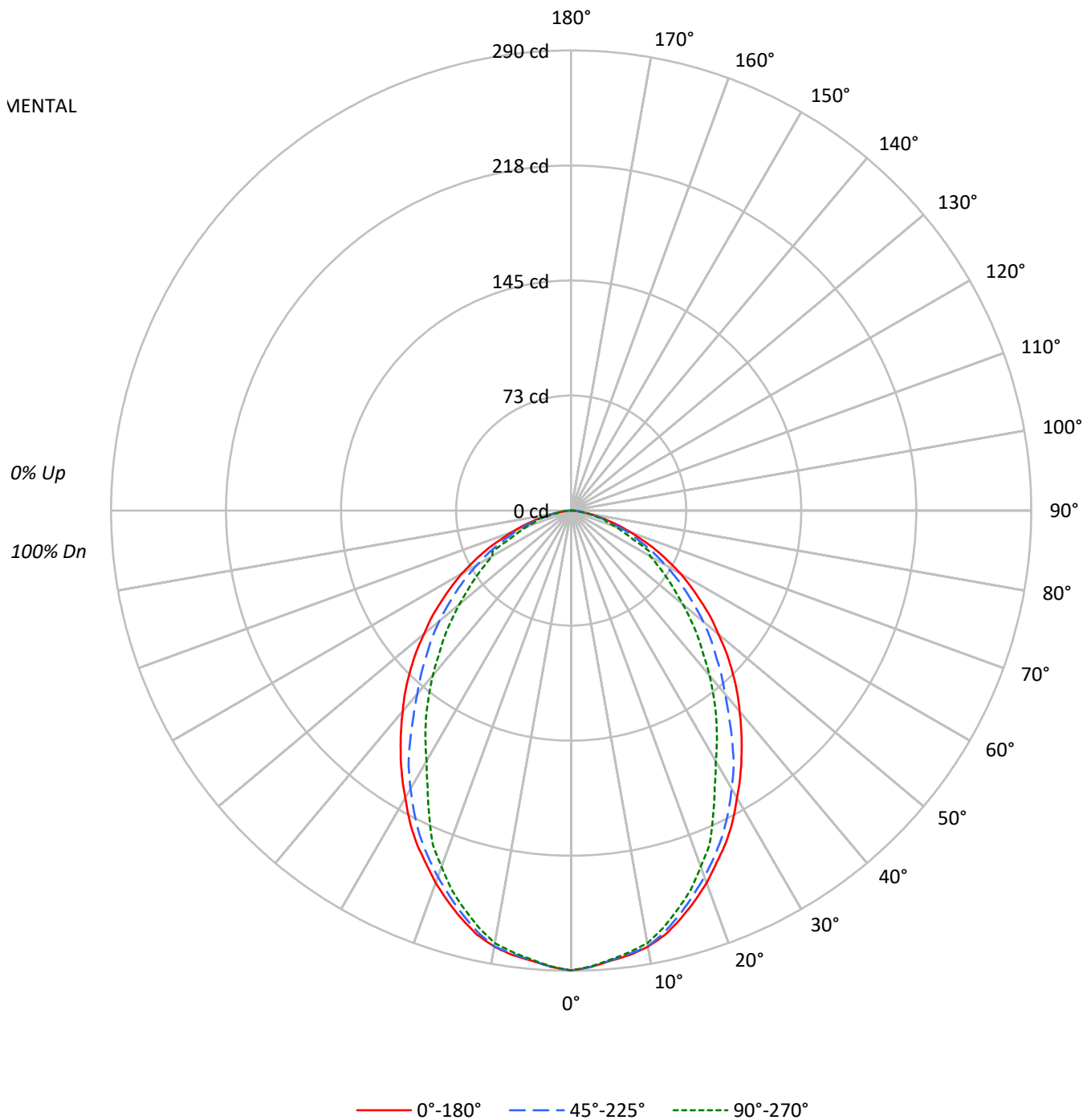
Lumens per Lamp: N/A
Luminaire Lumens: 569.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	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°	3119	3119	3119
5°	3077	3074	3070
10°	3051	3047	3025
15°	2969	2939	2897
20°	2859	2813	2737
25°	2742	2682	2515
30°	2599	2516	2266
35°	2461	2325	2096
40°	2321	2119	1907
45°	2187	1959	1725
50°	2026	1819	1537
55°	1875	1648	1377
60°	1716	1473	1234
65°	1510	1289	1093
70°	1243	1130	928
75°	990	865	907
80°	663	626	583
85°	420	494	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	4.7
10°-20°	74.0	13.0
20°-30°	102.5	18.0
30°-40°	109.3	19.2
40°-50°	99.7	17.5
50°-60°	78.1	13.7
60°-70°	50.9	8.9
70°-80°	22.6	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°	203.5	35.8
0°-40°	312.8	55.0
0°-60°	490.7	86.2
0°-90°	569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	290	290	290	290	290	
5°	285	284	284	284	284	27
15°	266	266	264	261	260	75
25°	231	230	226	218	212	106
35°	187	186	177	164	160	117
45°	144	141	129	118	113	111
55°	100	97	88	77	73	90
65°	59	56	51	52	43	58
75°	24	22	21	20	22	25
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°	289.8	289.8	289.8	289.8	289.8
2.5°	287.8	287.8	287.8	287.5	287.5
5°	284.8	284.5	284.5	284.1	284.1
7.5°	282.5	282.1	281.8	281.5	280.8
10°	279.1	279.1	278.8	277.1	276.8
12.5°	273.8	273.4	272.1	269.7	269.1
15°	266.4	266.4	263.7	261.0	260.0
17.5°	258.3	258.0	254.7	252.0	250.6
20°	249.6	249.0	245.6	241.3	238.9
22.5°	239.9	239.9	235.9	230.2	227.9
25°	230.9	229.5	225.8	217.8	211.8
27.5°	220.5	218.5	214.4	203.1	196.0
30°	209.1	208.1	202.4	187.6	182.3
32.5°	198.4	196.7	190.7	175.2	170.9
35°	187.3	186.0	176.9	163.5	159.5
37.5°	176.3	174.6	163.2	152.5	147.4
40°	165.2	163.2	150.8	141.1	135.7
42.5°	154.8	152.1	140.1	129.7	123.6
45°	143.7	140.7	128.7	117.9	113.3
47.5°	132.7	130.0	119.0	107.9	102.5
50°	121.0	118.6	108.6	97.5	91.8
52.5°	111.2	107.6	97.8	86.8	82.1
55°	99.9	96.8	87.8	77.4	73.4
57.5°	89.5	86.4	78.1	68.4	65.0
60°	79.7	75.4	68.4	60.0	57.3
62.5°	69.0	65.7	59.6	52.6	56.0
65°	59.3	56.0	50.6	51.6	42.9
67.5°	48.6	46.9	42.2	37.5	36.2
70°	39.5	37.5	35.9	30.8	29.5
72.5°	31.5	29.5	27.1	24.5	23.5
75°	23.8	22.1	20.8	19.8	21.8
77.5°	16.4	15.7	14.7	13.7	13.4
80°	10.7	10.4	10.1	9.7	9.4
82.5°	6.4	6.4	6.4	6.4	6.4
85°	3.4	3.7	4.0	4.4	4.7
87.5°	2.0	2.0	2.3	2.7	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)