

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: P558995

Luminaire Tested: FSR-12-1-LD4-1STD-50-UNV-82-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558995
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 737.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

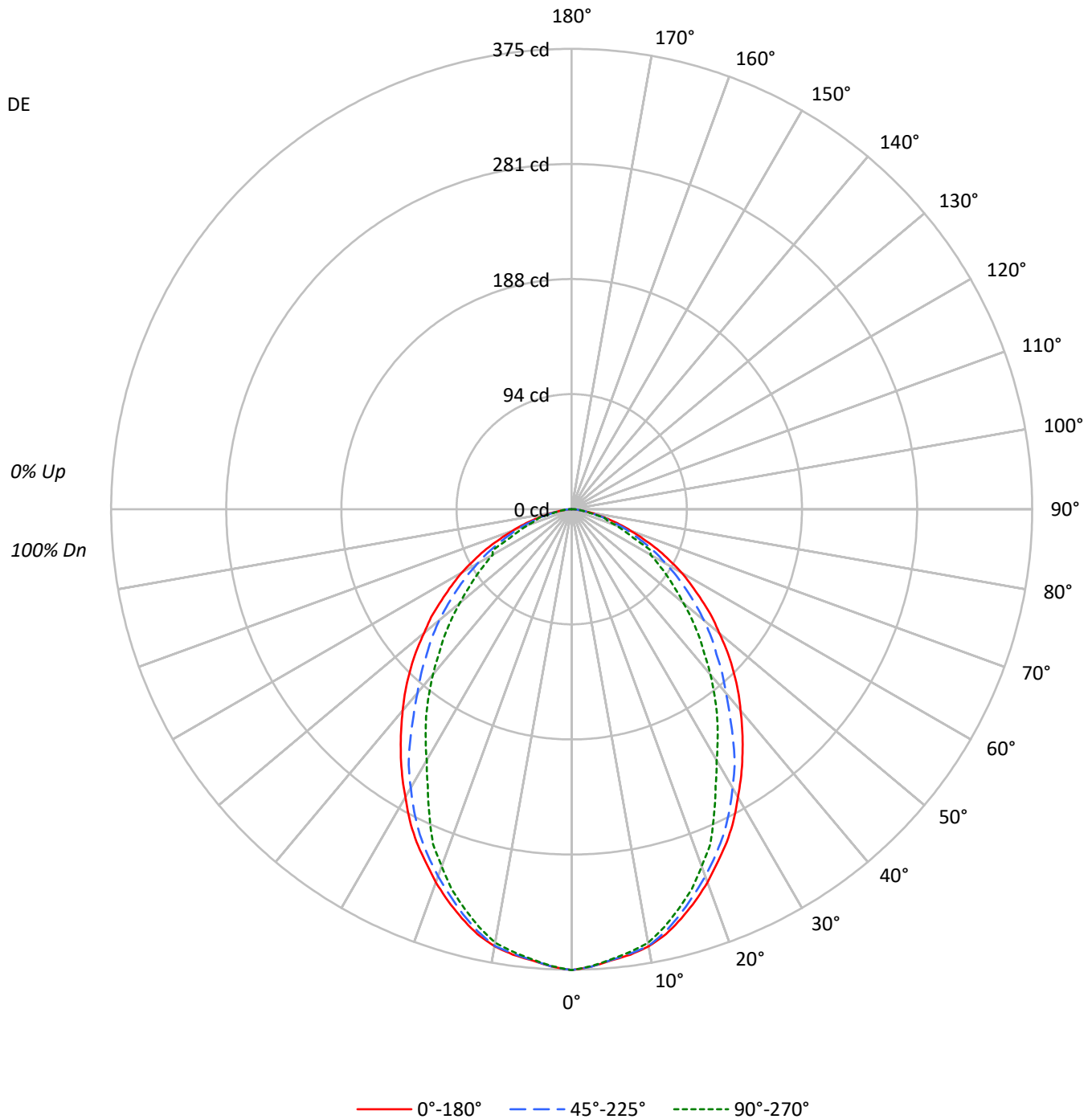
Input Watts (W): 8.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	4041	4041	4041
5°	3986	3982	3976
10°	3951	3947	3918
15°	3845	3807	3753
20°	3703	3644	3544
25°	3551	3474	3258
30°	3366	3258	2935
35°	3188	3012	2715
40°	3007	2744	2470
45°	2834	2538	2233
50°	2624	2354	1991
55°	2426	2134	1783
60°	2224	1905	1597
65°	1956	1668	1416
70°	1611	1460	1202
75°	1281	1119	1173
80°	862	806	756
85°	531	642	753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	4.7
10°-20°	95.9	13.0
20°-30°	132.8	18.0
30°-40°	141.6	19.2
40°-50°	129.2	17.5
50°-60°	101.2	13.7
60°-70°	66.0	8.9
70°-80°	29.2	4.0
80°-90°	6.3	0.8
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°	263.6	35.8
0°-40°	405.2	55.0
0°-60°	635.6	86.2
0°-90°	737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	375	375	375	375	375	
5°	369	368	368	368	368	35
15°	345	345	342	338	337	97
25°	299	297	292	282	274	137
35°	243	241	229	212	207	152
45°	186	182	167	153	147	143
55°	129	125	114	100	95	116
65°	77	72	66	67	56	76
75°	31	29	27	26	28	33
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°	375.4	375.4	375.4	375.4	375.4
2.5°	372.8	372.8	372.8	372.4	372.4
5°	368.9	368.5	368.5	368.0	368.0
7.5°	365.9	365.4	365.0	364.6	363.7
10°	361.5	361.5	361.1	358.9	358.5
12.5°	354.6	354.2	352.4	349.4	348.5
15°	345.0	345.0	341.6	338.1	336.8
17.5°	334.6	334.2	329.8	326.4	324.6
20°	323.3	322.5	318.1	312.5	309.4
22.5°	310.8	310.8	305.5	298.2	295.1
25°	299.0	297.3	292.5	282.1	274.3
27.5°	285.6	283.0	277.8	263.0	253.9
30°	270.8	269.5	262.1	243.0	236.1
32.5°	256.9	254.8	247.0	227.0	221.3
35°	242.6	240.9	229.2	211.8	206.6
37.5°	228.3	226.1	211.4	197.5	191.0
40°	214.0	211.4	195.3	182.7	175.8
42.5°	200.5	197.0	181.4	168.0	160.1
45°	186.2	182.3	166.7	152.8	146.7
47.5°	171.9	168.4	154.1	139.8	132.8
50°	156.7	153.6	140.6	126.3	118.9
52.5°	144.1	139.3	126.7	112.4	106.3
55°	129.3	125.4	113.7	100.3	95.0
57.5°	115.9	112.0	101.1	88.5	84.2
60°	103.3	97.7	88.5	77.7	74.2
62.5°	89.4	85.1	77.3	68.1	72.5
65°	76.8	72.5	65.5	66.8	55.6
67.5°	62.9	60.8	54.7	48.6	46.9
70°	51.2	48.6	46.4	39.9	38.2
72.5°	40.8	38.2	35.2	31.7	30.4
75°	30.8	28.6	26.9	25.6	28.2
77.5°	21.3	20.4	19.1	17.8	17.4
80°	13.9	13.5	13.0	12.6	12.2
82.5°	8.2	8.2	8.2	8.2	8.2
85°	4.3	4.8	5.2	5.6	6.1
87.5°	2.6	2.6	3.0	3.5	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)