

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: P558675

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

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558675
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-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

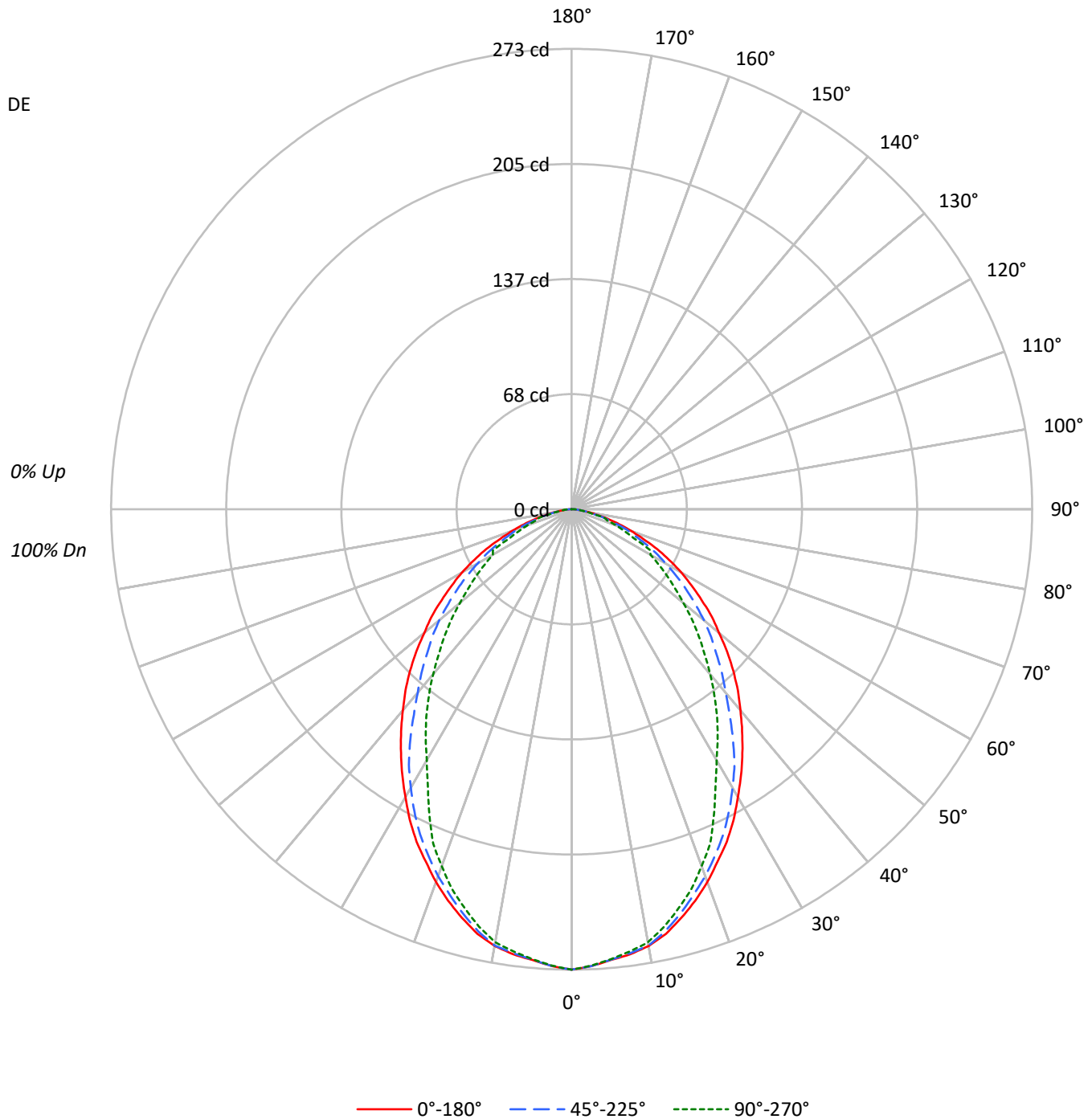
Lumens per Lamp: N/A
Luminaire Lumens: 536.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2939	2939	2939
5°	2899	2896	2893
10°	2873	2870	2849
15°	2796	2768	2729
20°	2694	2651	2578
25°	2583	2526	2369
30°	2449	2369	2134
35°	2318	2190	1974
40°	2186	1995	1796
45°	2061	1845	1624
50°	1907	1713	1449
55°	1766	1552	1297
60°	1617	1386	1163
65°	1424	1215	1029
70°	1171	1064	875
75°	932	815	853
80°	626	589	545
85°	395	469	543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	4.7
10°-20°	69.8	13.0
20°-30°	96.6	18.0
30°-40°	103.0	19.2
40°-50°	93.9	17.5
50°-60°	73.6	13.7
60°-70°	48.0	9.0
70°-80°	21.2	4.0
80°-90°	4.6	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°	191.7	35.8
0°-40°	294.7	55.0
0°-60°	462.2	86.2
0°-90°	536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	268	268	268	268	268	25
15°	251	251	248	246	245	71
25°	218	216	213	205	200	100
35°	176	175	167	154	150	110
45°	135	133	121	111	107	104
55°	94	91	83	73	69	84
65°	56	53	48	49	40	55
75°	22	21	20	19	20	24
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°	273.0	273.0	273.0	273.0	273.0
2.5°	271.1	271.1	271.1	270.8	270.8
5°	268.3	268.0	268.0	267.7	267.7
7.5°	266.1	265.8	265.5	265.1	264.5
10°	262.9	262.9	262.6	261.0	260.7
12.5°	257.9	257.6	256.3	254.1	253.5
15°	250.9	250.9	248.4	245.9	244.9
17.5°	243.4	243.0	239.9	237.4	236.1
20°	235.2	234.5	231.4	227.3	225.1
22.5°	226.0	226.0	222.2	216.8	214.6
25°	217.5	216.2	212.7	205.2	199.5
27.5°	207.7	205.8	202.0	191.3	184.7
30°	197.0	196.0	190.6	176.8	171.7
32.5°	186.9	185.3	179.6	165.1	161.0
35°	176.4	175.2	166.7	154.0	150.2
37.5°	166.0	164.5	153.7	143.6	138.9
40°	155.6	153.7	142.0	132.9	127.8
42.5°	145.8	143.3	131.9	122.2	116.5
45°	135.4	132.6	121.2	111.1	106.7
47.5°	125.0	122.5	112.1	101.6	96.6
50°	113.9	111.7	102.3	91.9	86.5
52.5°	104.8	101.3	92.2	81.8	77.3
55°	94.1	91.2	82.7	72.9	69.1
57.5°	84.3	81.4	73.5	64.4	61.2
60°	75.1	71.0	64.4	56.5	54.0
62.5°	65.0	61.9	56.2	49.6	52.7
65°	55.9	52.7	47.7	48.6	40.4
67.5°	45.8	44.2	39.8	35.4	34.1
70°	37.2	35.4	33.8	29.0	27.8
72.5°	29.7	27.8	25.6	23.0	22.1
75°	22.4	20.8	19.6	18.6	20.5
77.5°	15.5	14.8	13.9	12.9	12.6
80°	10.1	9.8	9.5	9.2	8.8
82.5°	6.0	6.0	6.0	6.0	6.0
85°	3.2	3.5	3.8	4.1	4.4
87.5°	1.9	1.9	2.2	2.5	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)