

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: P558787

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-81-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558787
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-50-UNV-81-85-EDD
Description: 1X1 FSR TROFFER WITH .156 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: 562.0 lumens
Efficiency: N/A
Efficacy: 96.9 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

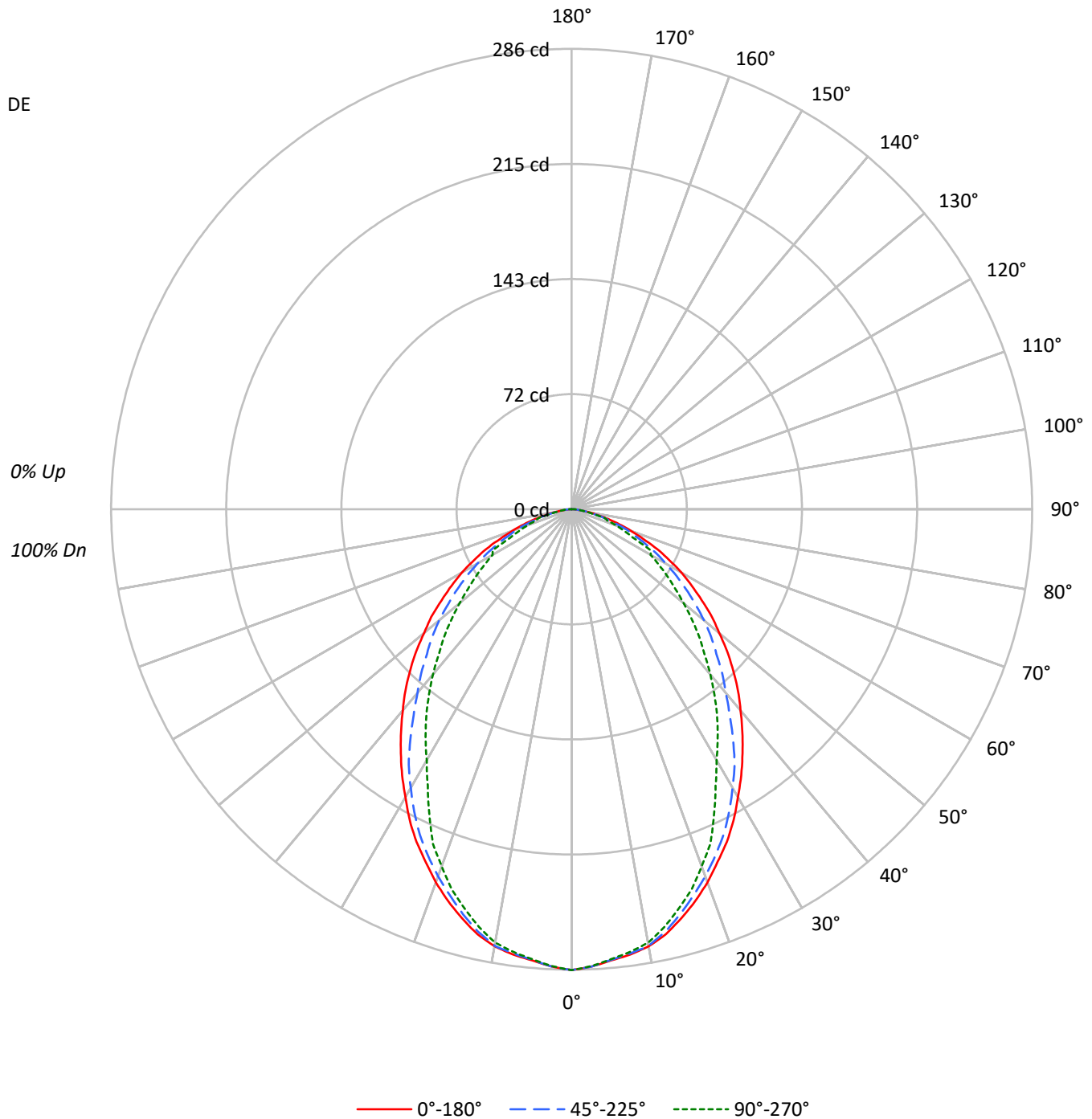
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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												100																
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87												87																
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75												75																
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65												65																
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56												56																
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50												50																
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44												44																
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40												40																
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36												36																
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33												33																
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30												30																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3082	3082	3082
5°	3039	3036	3032
10°	3013	3010	2988
15°	2932	2903	2862
20°	2825	2779	2703
25°	2708	2650	2485
30°	2567	2485	2237
35°	2431	2296	2070
40°	2293	2092	1883
45°	2162	1935	1703
50°	2001	1795	1519
55°	1850	1627	1361
60°	1696	1453	1218
65°	1493	1273	1080
70°	1231	1114	916
75°	977	853	894
80°	657	614	576
85°	408	494	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	4.7
10°-20°	73.1	13.0
20°-30°	101.3	18.0
30°-40°	108.0	19.2
40°-50°	98.5	17.5
50°-60°	77.2	13.7
60°-70°	50.3	9.0
70°-80°	22.3	4.0
80°-90°	4.8	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°	201.0	35.8
0°-40°	309.0	55.0
0°-60°	484.7	86.2
0°-90°	562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	281	281	281	281	281	27
15°	263	263	260	258	257	74
25°	228	227	223	215	209	105
35°	185	184	175	162	158	116
45°	142	139	127	116	112	109
55°	99	96	87	76	72	88
65°	59	55	50	51	42	58
75°	24	22	20	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°	286.3	286.3	286.3	286.3	286.3
2.5°	284.3	284.3	284.3	284.0	284.0
5°	281.3	281.0	281.0	280.6	280.6
7.5°	279.0	278.7	278.3	278.0	277.3
10°	275.7	275.7	275.4	273.7	273.4
12.5°	270.4	270.1	268.7	266.4	265.8
15°	263.1	263.1	260.5	257.8	256.8
17.5°	255.2	254.8	251.5	248.9	247.6
20°	246.6	245.9	242.6	238.3	236.0
22.5°	237.0	237.0	233.0	227.4	225.0
25°	228.0	226.7	223.1	215.1	209.2
27.5°	217.8	215.8	211.8	200.6	193.6
30°	206.5	205.5	199.9	185.3	180.0
32.5°	195.9	194.3	188.3	173.1	168.8
35°	185.0	183.7	174.7	161.5	157.5
37.5°	174.1	172.4	161.2	150.6	145.6
40°	163.2	161.2	148.9	139.3	134.0
42.5°	152.9	150.3	138.3	128.1	122.1
45°	142.0	139.0	127.1	116.5	111.9
47.5°	131.1	128.4	117.5	106.6	101.3
50°	119.5	117.2	107.2	96.3	90.7
52.5°	109.9	106.2	96.6	85.7	81.1
55°	98.6	95.6	86.7	76.5	72.5
57.5°	88.4	85.4	77.1	67.5	64.2
60°	78.8	74.5	67.5	59.2	56.6
62.5°	68.2	64.9	58.9	52.0	55.3
65°	58.6	55.3	50.0	51.0	42.4
67.5°	48.0	46.3	41.7	37.1	35.7
70°	39.1	37.1	35.4	30.4	29.1
72.5°	31.1	29.1	26.8	24.2	23.2
75°	23.5	21.8	20.5	19.5	21.5
77.5°	16.2	15.6	14.6	13.6	13.2
80°	10.6	10.3	9.9	9.6	9.3
82.5°	6.3	6.3	6.3	6.3	6.3
85°	3.3	3.6	4.0	4.3	4.6
87.5°	2.0	2.0	2.3	2.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)