

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: P560721

Luminaire Tested: FSR-12-2-LD4-2STD-50-UNV-82-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560721
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-12-2-LD4-2STD-50-UNV-82-84-EDD
Description: 1X2 FSR TROFFER WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SI
LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

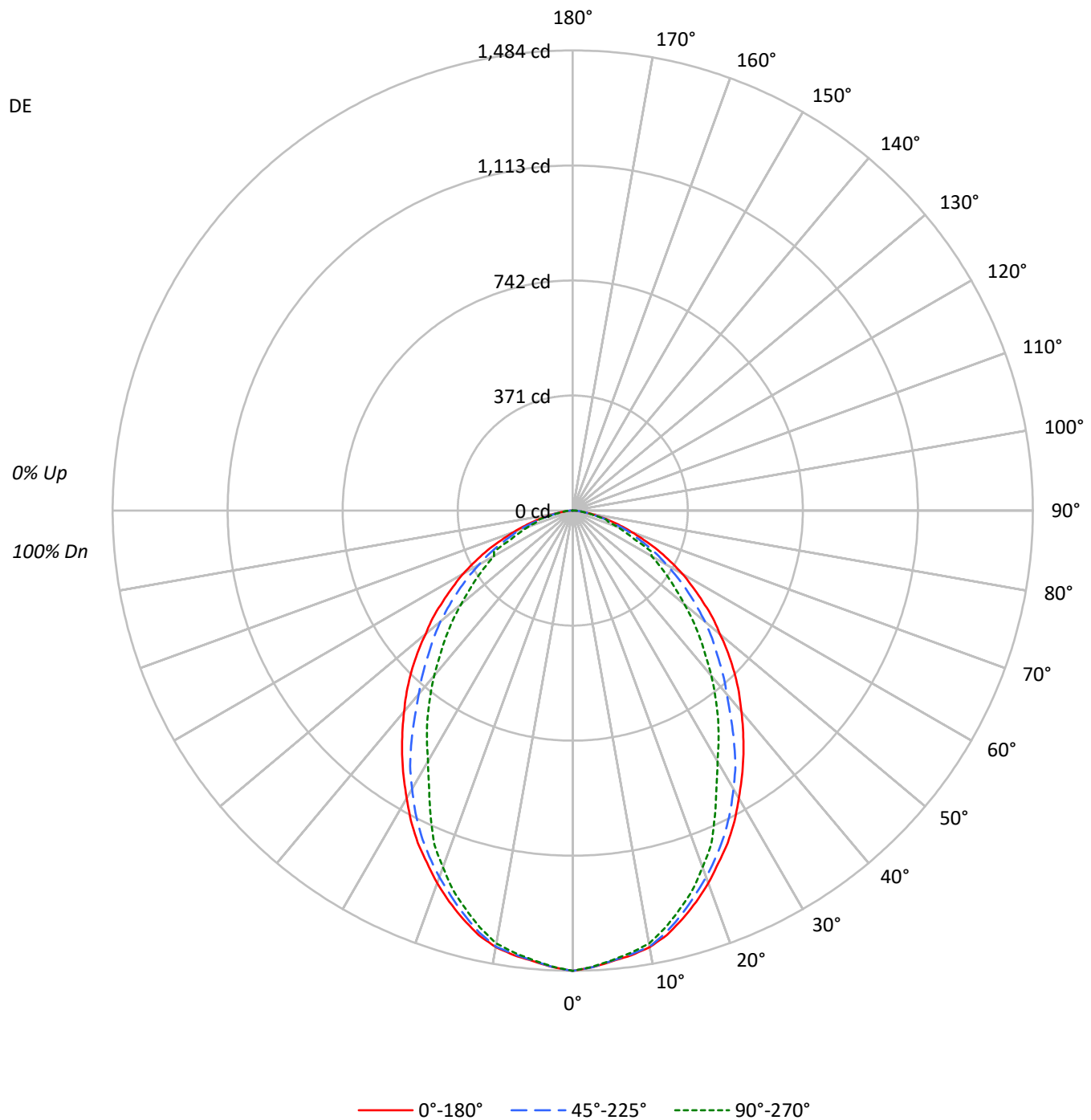
Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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°	7989	7989	7989
5°	7880	7871	7862
10°	7812	7802	7746
15°	7601	7525	7419
20°	7322	7204	7007
25°	7021	6868	6440
30°	6655	6441	5801
35°	6303	5953	5367
40°	5944	5425	4883
45°	5603	5015	4415
50°	5187	4655	3937
55°	4799	4219	3526
60°	4396	3768	3158
65°	3868	3300	2797
70°	3186	2889	2376
75°	2533	2213	2319
80°	1702	1596	1488
85°	1062	1272	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	4.7
10°-20°	379.2	13.0
20°-30°	525.0	18.0
30°-40°	559.8	19.2
40°-50°	510.7	17.5
50°-60°	400.1	13.7
60°-70°	260.8	8.9
70°-80°	115.5	4.0
80°-90°	24.8	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°	1042.4	35.8
0°-40°	1602.1	55.0
0°-60°	2512.9	86.2
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1459	1457	1457	1455	1455	138
15°	1364	1364	1350	1337	1332	384
25°	1182	1176	1157	1115	1084	543
35°	959	952	906	837	817	600
45°	736	721	659	604	580	567
55°	511	496	450	396	376	459
65°	304	287	259	264	220	299
75°	122	113	106	101	112	131
85°	17	19	21	22	24	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.4	1484.4	1484.4	1484.4	1484.4
2.5°	1474.1	1474.1	1474.1	1472.3	1472.3
5°	1458.6	1456.9	1456.9	1455.2	1455.2
7.5°	1446.6	1444.9	1443.2	1441.5	1438.0
10°	1429.4	1429.4	1427.7	1419.1	1417.4
12.5°	1402.0	1400.3	1393.4	1381.4	1378.0
15°	1364.2	1364.2	1350.5	1336.8	1331.6
17.5°	1323.0	1321.3	1304.2	1290.4	1283.6
20°	1278.4	1275.0	1257.8	1235.5	1223.5
22.5°	1228.7	1228.7	1208.1	1178.9	1166.9
25°	1182.3	1175.5	1156.6	1115.4	1084.5
27.5°	1129.1	1118.8	1098.2	1039.9	1003.9
30°	1070.8	1065.6	1036.5	961.0	933.5
32.5°	1015.9	1007.3	976.4	897.5	875.2
35°	959.3	952.4	906.1	837.4	816.8
37.5°	902.6	894.0	835.7	780.8	755.0
40°	846.0	835.7	772.2	722.4	695.0
42.5°	792.8	779.1	717.3	664.1	633.2
45°	736.2	720.7	658.9	604.0	580.0
47.5°	679.5	665.8	609.2	552.6	525.1
50°	619.5	607.5	556.0	499.4	470.2
52.5°	569.7	550.8	501.1	444.4	420.4
55°	511.4	495.9	449.6	396.4	375.8
57.5°	458.2	442.7	399.8	350.1	332.9
60°	408.4	386.1	350.1	307.2	293.4
62.5°	353.5	336.3	305.5	269.4	286.6
65°	303.7	286.6	259.1	264.3	219.6
67.5°	248.8	240.2	216.2	192.2	185.3
70°	202.5	192.2	183.6	157.9	151.0
72.5°	161.3	151.0	139.0	125.3	120.1
75°	121.8	113.3	106.4	101.2	111.5
77.5°	84.1	80.7	75.5	70.4	68.6
80°	54.9	53.2	51.5	49.8	48.0
82.5°	32.6	32.6	32.6	32.6	32.6
85°	17.2	18.9	20.6	22.3	24.0
87.5°	10.3	10.3	12.0	13.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)