

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: P560561

Luminaire Tested: FSR-12-2-LD4-2STD-35-UNV-80-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560561
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-35-UNV-80-84-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3051.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

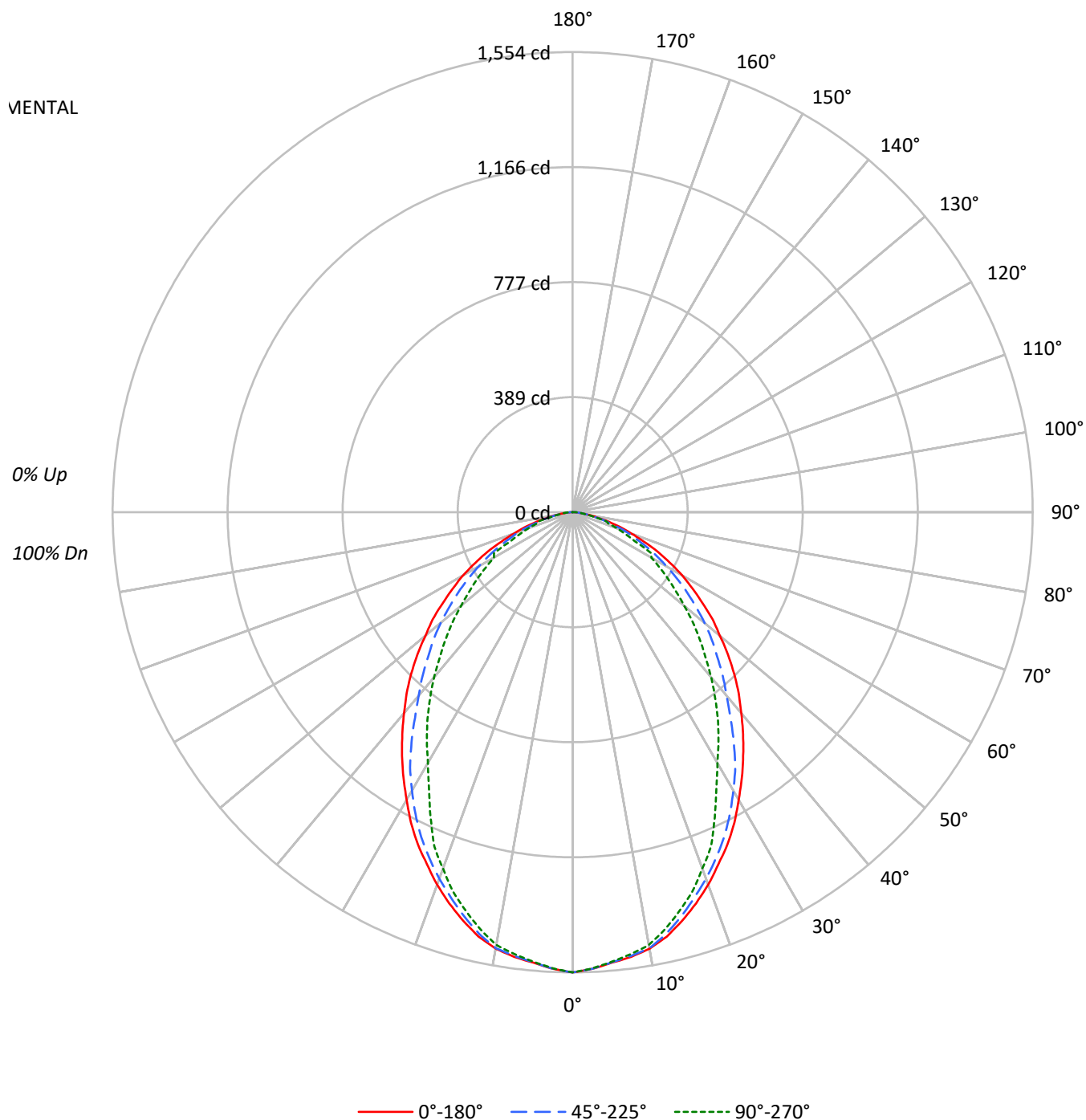
Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	8364	8364	8364
5°	8251	8241	8231
10°	8179	8169	8111
15°	7959	7879	7768
20°	7666	7543	7337
25°	7351	7191	6743
30°	6967	6744	6074
35°	6599	6233	5619
40°	6223	5680	5113
45°	5867	5251	4622
50°	5431	4874	4122
55°	5024	4417	3692
60°	4603	3945	3307
65°	4050	3455	2929
70°	3336	3024	2488
75°	2653	2316	2429
80°	1782	1671	1559
85°	1112	1334	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.7
10°-20°	397.0	13.0
20°-30°	549.7	18.0
30°-40°	586.1	19.2
40°-50°	534.7	17.5
50°-60°	418.9	13.7
60°-70°	273.0	8.9
70°-80°	121.0	4.0
80°-90°	26.0	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°	1091.4	35.8
0°-40°	1677.5	55.0
0°-60°	2631.0	86.2
0°-90°	3051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1527	1525	1525	1524	1524	145
15°	1428	1428	1414	1400	1394	402
25°	1238	1231	1211	1168	1136	568
35°	1004	997	949	877	855	628
45°	771	755	690	632	607	594
55°	535	519	471	415	394	480
65°	318	300	271	277	230	313
75°	128	119	111	106	117	137
85°	18	20	22	23	25	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.1	1554.1	1554.1	1554.1	1554.1
2.5°	1543.4	1543.4	1543.4	1541.6	1541.6
5°	1527.2	1525.4	1525.4	1523.6	1523.6
7.5°	1514.6	1512.8	1511.0	1509.2	1505.6
10°	1496.6	1496.6	1494.8	1485.9	1484.1
12.5°	1467.9	1466.1	1458.9	1446.3	1442.7
15°	1428.4	1428.4	1414.0	1399.6	1394.2
17.5°	1385.2	1383.5	1365.5	1351.1	1343.9
20°	1338.5	1334.9	1317.0	1293.6	1281.0
22.5°	1286.4	1286.4	1264.9	1234.3	1221.8
25°	1237.9	1230.7	1211.0	1167.8	1135.5
27.5°	1182.2	1171.4	1149.9	1088.8	1051.1
30°	1121.1	1115.7	1085.2	1006.1	977.4
32.5°	1063.6	1054.7	1022.3	939.7	916.3
35°	1004.4	997.2	948.7	876.8	855.2
37.5°	945.1	936.1	875.0	817.5	790.5
40°	885.8	875.0	808.5	756.4	727.7
42.5°	830.1	815.7	751.0	695.3	663.0
45°	770.8	754.6	689.9	632.4	607.3
47.5°	711.5	697.1	637.8	578.5	549.8
50°	648.6	636.0	582.1	522.8	492.3
52.5°	596.5	576.7	524.6	465.3	440.2
55°	535.4	519.2	470.7	415.0	393.5
57.5°	479.7	463.5	418.6	366.5	348.6
60°	427.6	404.3	366.5	321.6	307.2
62.5°	370.1	352.2	319.8	282.1	300.0
65°	318.0	300.0	271.3	276.7	230.0
67.5°	260.5	251.5	226.4	201.2	194.0
70°	212.0	201.2	192.2	165.3	158.1
72.5°	168.9	158.1	145.5	131.2	125.8
75°	127.6	118.6	111.4	106.0	116.8
77.5°	88.0	84.4	79.1	73.7	71.9
80°	57.5	55.7	53.9	52.1	50.3
82.5°	34.1	34.1	34.1	34.1	34.1
85°	18.0	19.8	21.6	23.4	25.2
87.5°	10.8	10.8	12.6	14.4	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)