

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: P560373

Luminaire Tested: FSR-12-2-LD4-2LO-35-UNV-80-86-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560373
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-LD4-2LO-35-UNV-80-86-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2208.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

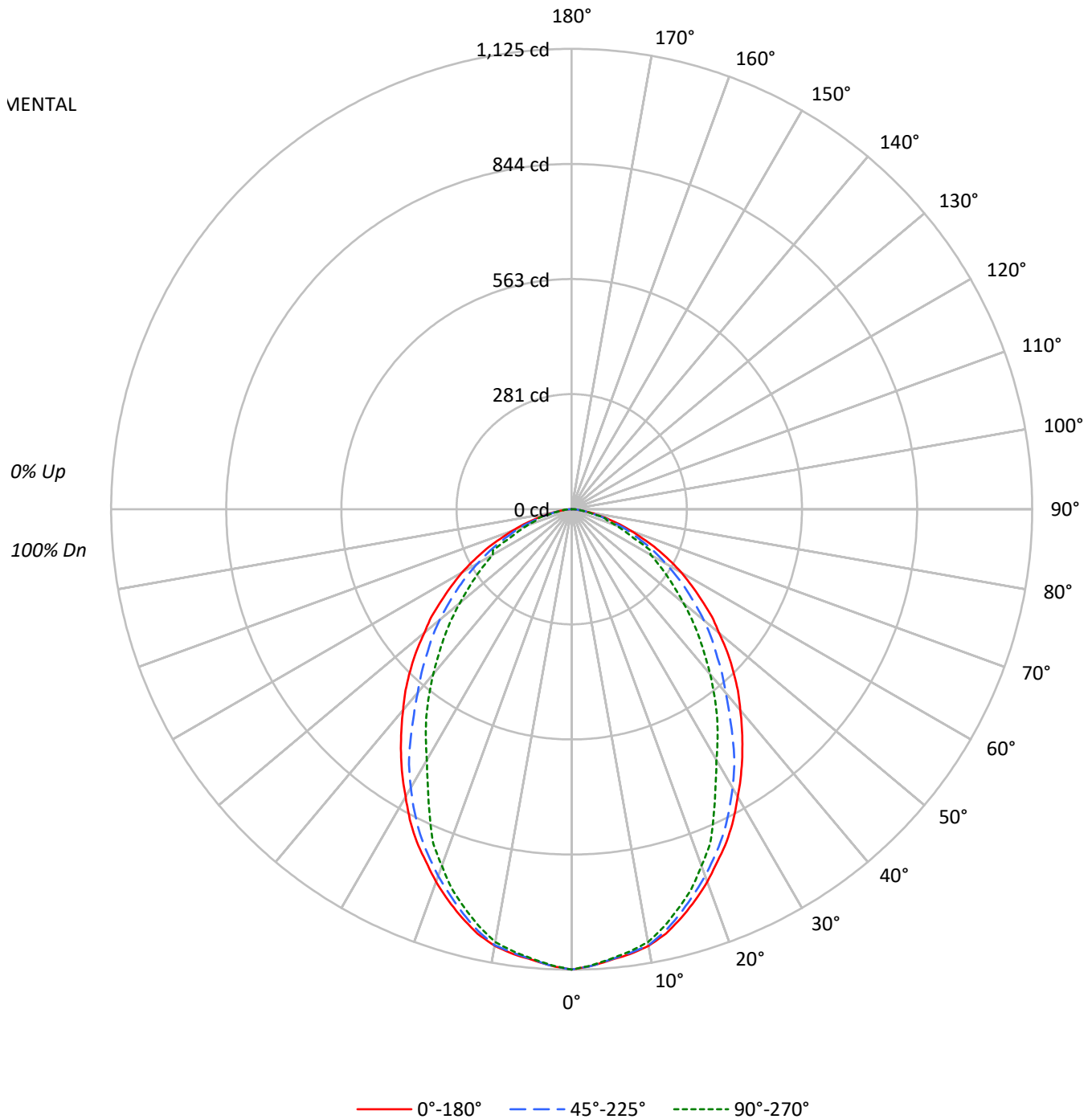
Input Watts (W): 23.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6053	6053	6053
5°	5971	5964	5957
10°	5919	5912	5869
15°	5760	5702	5622
20°	5548	5459	5310
25°	5320	5204	4880
30°	5042	4881	4396
35°	4775	4510	4066
40°	4503	4111	3700
45°	4246	3800	3345
50°	3930	3527	2983
55°	3636	3197	2672
60°	3331	2856	2393
65°	2930	2500	2119
70°	2414	2189	1800
75°	1919	1676	1757
80°	1289	1209	1128
85°	803	963	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4246 cd/sqm

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CATALOG NUMBER: FSR-12-2-LD4-2LO-35-UNV-80-86-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.7
10°-20°	287.3	13.0
20°-30°	397.8	18.0
30°-40°	424.1	19.2
40°-50°	387.0	17.5
50°-60°	303.2	13.7
60°-70°	197.6	8.9
70°-80°	87.5	4.0
80°-90°	18.8	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°	789.8	35.8
0°-40°	1214.0	55.0
0°-60°	1904.1	86.2
0°-90°	2208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1105	1104	1104	1103	1103	105
15°	1034	1034	1023	1013	1009	291
25°	896	891	876	845	822	411
35°	727	722	686	634	619	454
45°	558	546	499	458	440	430
55°	388	376	341	300	285	348
65°	230	217	196	200	166	227
75°	92	86	81	77	84	99
85°	13	14	16	17	18	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.7	1124.7	1124.7	1124.7	1124.7
2.5°	1116.9	1116.9	1116.9	1115.6	1115.6
5°	1105.2	1103.9	1103.9	1102.6	1102.6
7.5°	1096.1	1094.8	1093.5	1092.2	1089.6
10°	1083.1	1083.1	1081.8	1075.3	1074.0
12.5°	1062.3	1061.0	1055.8	1046.7	1044.1
15°	1033.7	1033.7	1023.3	1012.9	1009.0
17.5°	1002.5	1001.2	988.2	977.8	972.6
20°	968.7	966.1	953.1	936.2	927.1
22.5°	931.0	931.0	915.4	893.3	884.2
25°	895.9	890.7	876.4	845.2	821.8
27.5°	855.6	847.8	832.2	788.0	760.7
30°	811.4	807.5	785.4	728.1	707.3
32.5°	769.8	763.3	739.8	680.0	663.1
35°	726.8	721.6	686.5	634.5	618.9
37.5°	683.9	677.4	633.2	591.6	572.1
40°	641.0	633.2	585.1	547.4	526.6
42.5°	600.7	590.3	543.5	503.2	479.8
45°	557.8	546.1	499.3	457.7	439.5
47.5°	514.9	504.5	461.6	418.7	397.9
50°	469.4	460.3	421.3	378.4	356.3
52.5°	431.7	417.4	379.7	336.8	318.6
55°	387.5	375.8	340.7	300.4	284.8
57.5°	347.2	335.5	303.0	265.3	252.3
60°	309.5	292.6	265.3	232.7	222.3
62.5°	267.9	254.9	231.4	204.1	217.1
65°	230.1	217.1	196.3	200.2	166.4
67.5°	188.5	182.0	163.8	145.6	140.4
70°	153.4	145.6	139.1	119.6	114.4
72.5°	122.2	114.4	105.3	94.9	91.0
75°	92.3	85.8	80.6	76.7	84.5
77.5°	63.7	61.1	57.2	53.3	52.0
80°	41.6	40.3	39.0	37.7	36.4
82.5°	24.7	24.7	24.7	24.7	24.7
85°	13.0	14.3	15.6	16.9	18.2
87.5°	7.8	7.8	9.1	10.4	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)