

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: P558769

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-80-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558769
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-80-84-EDD
Description: 1X1 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 604.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

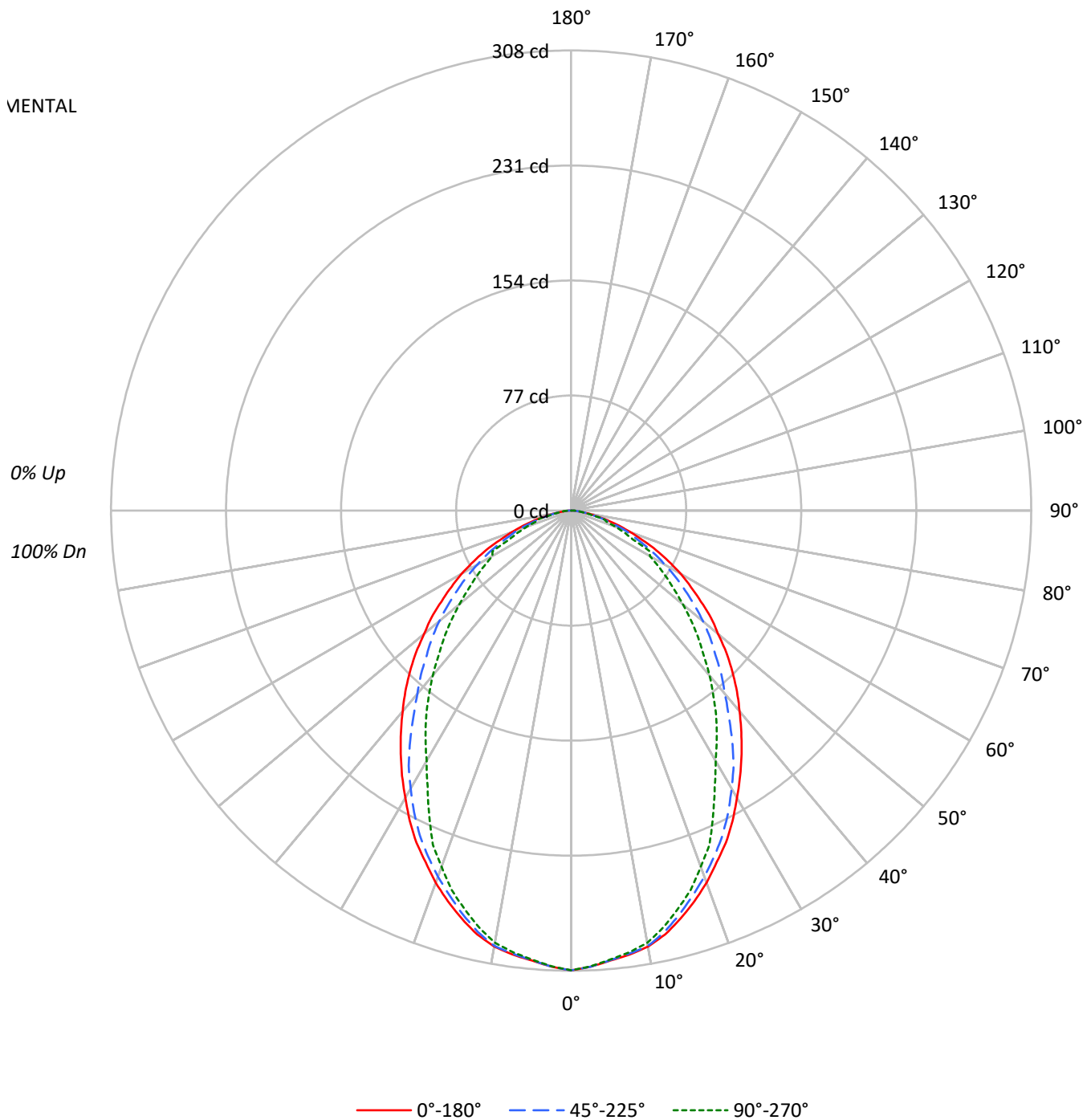
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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				
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	47	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°	3312	3312	3312
5°	3266	3263	3259
10°	3239	3234	3211
15°	3151	3119	3076
20°	3036	2986	2905
25°	2911	2847	2670
30°	2758	2670	2405
35°	2612	2468	2225
40°	2465	2250	2025
45°	2323	2079	1830
50°	2150	1929	1633
55°	1989	1749	1462
60°	1823	1563	1309
65°	1605	1368	1159
70°	1322	1199	985
75°	1052	919	961
80°	707	663	620
85°	445	531	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	4.7
10°-20°	78.6	13.0
20°-30°	108.8	18.0
30°-40°	116.0	19.2
40°-50°	105.9	17.5
50°-60°	82.9	13.7
60°-70°	54.0	8.9
70°-80°	24.0	4.0
80°-90°	5.1	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°	216.1	35.8
0°-40°	332.1	55.0
0°-60°	520.9	86.2
0°-90°	604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	302	302	302	302	302	29
15°	283	283	280	277	276	79
25°	245	244	240	231	225	113
35°	199	197	188	174	169	124
45°	153	149	137	125	120	118
55°	106	103	93	82	78	95
65°	63	59	54	55	46	62
75°	25	24	22	21	23	27
85°	4	4	4	5	5	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	307.7	307.7	307.7	307.7	307.7
2.5°	305.5	305.5	305.5	305.2	305.2
5°	302.3	302.0	302.0	301.6	301.6
7.5°	299.8	299.5	299.1	298.8	298.1
10°	296.3	296.3	295.9	294.2	293.8
12.5°	290.6	290.2	288.8	286.3	285.6
15°	282.8	282.8	279.9	277.1	276.0
17.5°	274.2	273.9	270.3	267.5	266.1
20°	265.0	264.3	260.7	256.1	253.6
22.5°	254.7	254.7	250.4	244.4	241.9
25°	245.1	243.6	239.7	231.2	224.8
27.5°	234.0	231.9	227.6	215.5	208.1
30°	221.9	220.9	214.8	199.2	193.5
32.5°	210.6	208.8	202.4	186.0	181.4
35°	198.8	197.4	187.8	173.6	169.3
37.5°	187.1	185.3	173.2	161.8	156.5
40°	175.4	173.2	160.1	149.7	144.1
42.5°	164.3	161.5	148.7	137.7	131.2
45°	152.6	149.4	136.6	125.2	120.2
47.5°	140.9	138.0	126.3	114.5	108.8
50°	128.4	125.9	115.2	103.5	97.5
52.5°	118.1	114.2	103.9	92.1	87.1
55°	106.0	102.8	93.2	82.2	77.9
57.5°	95.0	91.8	82.9	72.6	69.0
60°	84.7	80.0	72.6	63.7	60.8
62.5°	73.3	69.7	63.3	55.8	59.4
65°	63.0	59.4	53.7	54.8	45.5
67.5°	51.6	49.8	44.8	39.8	38.4
70°	42.0	39.8	38.1	32.7	31.3
72.5°	33.4	31.3	28.8	26.0	24.9
75°	25.3	23.5	22.1	21.0	23.1
77.5°	17.4	16.7	15.7	14.6	14.2
80°	11.4	11.0	10.7	10.3	10.0
82.5°	6.8	6.8	6.8	6.8	6.8
85°	3.6	3.9	4.3	4.6	5.0
87.5°	2.1	2.1	2.5	2.8	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)