

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: P558763

Luminaire Tested: FSR-12-1-LD4-1LO-40-UNV-93-94-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558763
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-40-UNV-93-94-EDD
Description: 1X1 FSR TROFFER WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPER GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

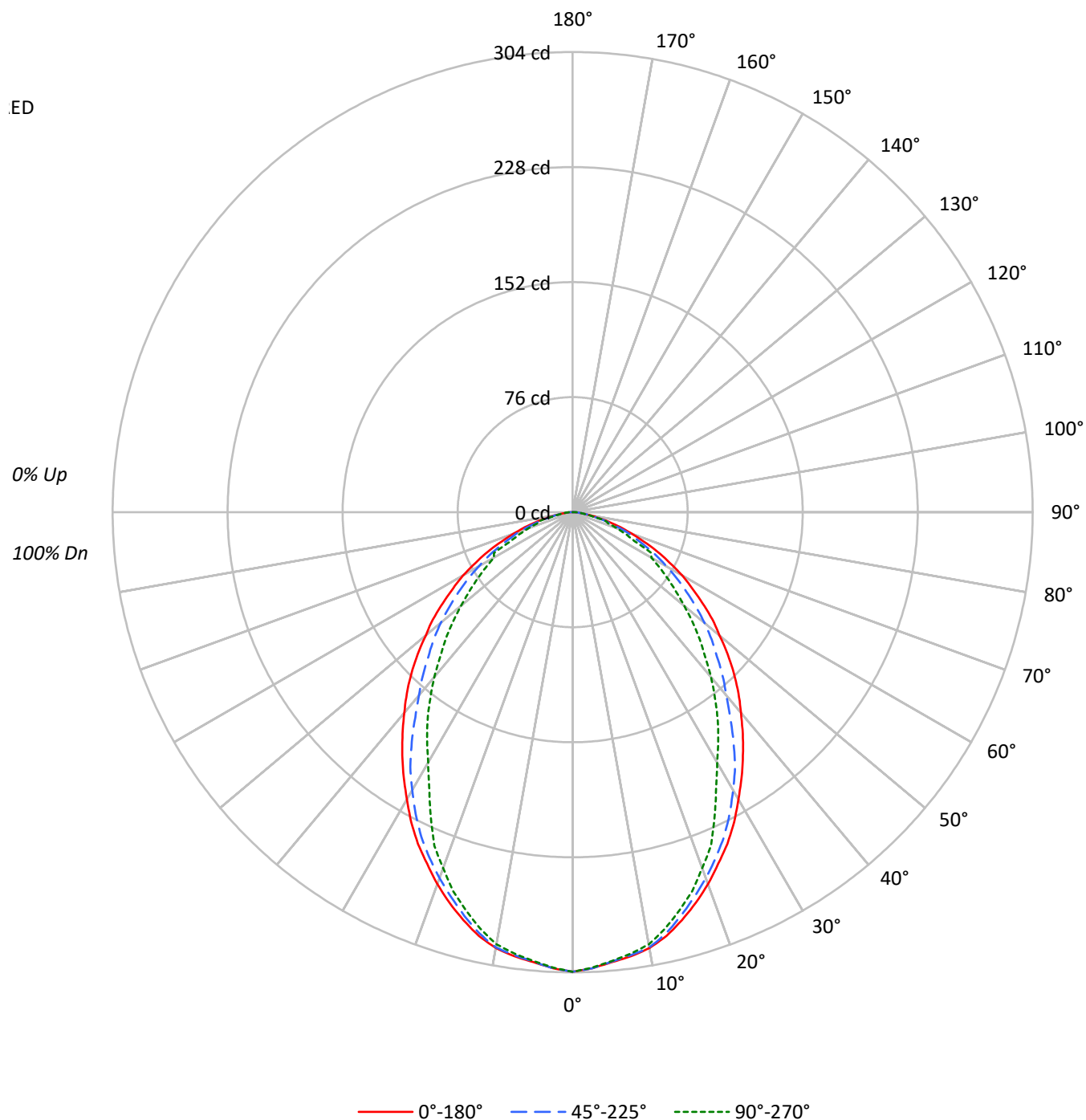
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		108	104	100	97		100	97	94		96	94	91		92	90	89
2	101	94	88	83		99	92	87	82		89	84	80		86	82	78		83	79	77
3	93	84	77	71		91	82	76	70		79	74	69		77	72	68		74	70	67
4	86	75	67	61		84	74	66	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54		78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	53	47		72	61	53	47		59	52	47		57	51	47		56	50	46
7	69	56	48	43		67	56	48	42		54	47	42		53	46	42		51	46	42
8	65	52	44	38		63	51	44	38		50	43	38		49	42	38		48	42	38
9	61	48	40	35		59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32		56	44	37	32		43	36	32		42	36	32		41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3268	3268	3268
5°	3223	3220	3216
10°	3196	3192	3169
15°	3109	3078	3036
20°	2995	2947	2866
25°	2872	2810	2634
30°	2722	2635	2373
35°	2578	2435	2196
40°	2431	2219	1997
45°	2293	2052	1805
50°	2122	1904	1611
55°	1963	1727	1443
60°	1798	1541	1292
65°	1582	1350	1144
70°	1303	1183	972
75°	1036	907	948
80°	694	651	607
85°	432	519	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	4.7
10°-20°	77.6	13.0
20°-30°	107.4	18.0
30°-40°	114.5	19.2
40°-50°	104.4	17.5
50°-60°	81.8	13.7
60°-70°	53.3	8.9
70°-80°	23.6	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°	213.2	35.8
0°-40°	327.7	55.0
0°-60°	514.0	86.2
0°-90°	596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	298	298	298	298	298	28
15°	279	279	276	273	272	78
25°	242	240	237	228	222	111
35°	196	195	185	171	167	123
45°	151	147	135	124	119	116
55°	105	101	92	81	77	94
65°	62	59	53	54	45	61
75°	25	23	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°	303.6	303.6	303.6	303.6	303.6
2.5°	301.5	301.5	301.5	301.1	301.1
5°	298.3	298.0	298.0	297.6	297.6
7.5°	295.9	295.5	295.2	294.8	294.1
10°	292.4	292.4	292.0	290.3	289.9
12.5°	286.7	286.4	285.0	282.5	281.8
15°	279.0	279.0	276.2	273.4	272.4
17.5°	270.6	270.3	266.7	263.9	262.5
20°	261.5	260.8	257.3	252.7	250.2
22.5°	251.3	251.3	247.1	241.1	238.7
25°	241.8	240.4	236.6	228.1	221.8
27.5°	230.9	228.8	224.6	212.7	205.3
30°	219.0	218.0	212.0	196.5	190.9
32.5°	207.8	206.0	199.7	183.6	179.0
35°	196.2	194.8	185.3	171.3	167.1
37.5°	184.6	182.9	170.9	159.7	154.4
40°	173.0	170.9	157.9	147.8	142.1
42.5°	162.2	159.3	146.7	135.8	129.5
45°	150.6	147.4	134.8	123.5	118.6
47.5°	139.0	136.2	124.6	113.0	107.4
50°	126.7	124.2	113.7	102.1	96.2
52.5°	116.5	112.7	102.5	90.9	86.0
55°	104.6	101.4	92.0	81.1	76.9
57.5°	93.7	90.6	81.8	71.6	68.1
60°	83.5	79.0	71.6	62.8	60.0
62.5°	72.3	68.8	62.5	55.1	58.6
65°	62.1	58.6	53.0	54.1	44.9
67.5°	50.9	49.1	44.2	39.3	37.9
70°	41.4	39.3	37.6	32.3	30.9
72.5°	33.0	30.9	28.4	25.6	24.6
75°	24.9	23.2	21.8	20.7	22.8
77.5°	17.2	16.5	15.4	14.4	14.0
80°	11.2	10.9	10.5	10.2	9.8
82.5°	6.7	6.7	6.7	6.7	6.7
85°	3.5	3.9	4.2	4.6	4.9
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)