

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: P560125

Luminaire Tested: FSR-12-2-LD4-1STD-50-UNV-80-96-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560125
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-LD4-1STD-50-UNV-80-96-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED G ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

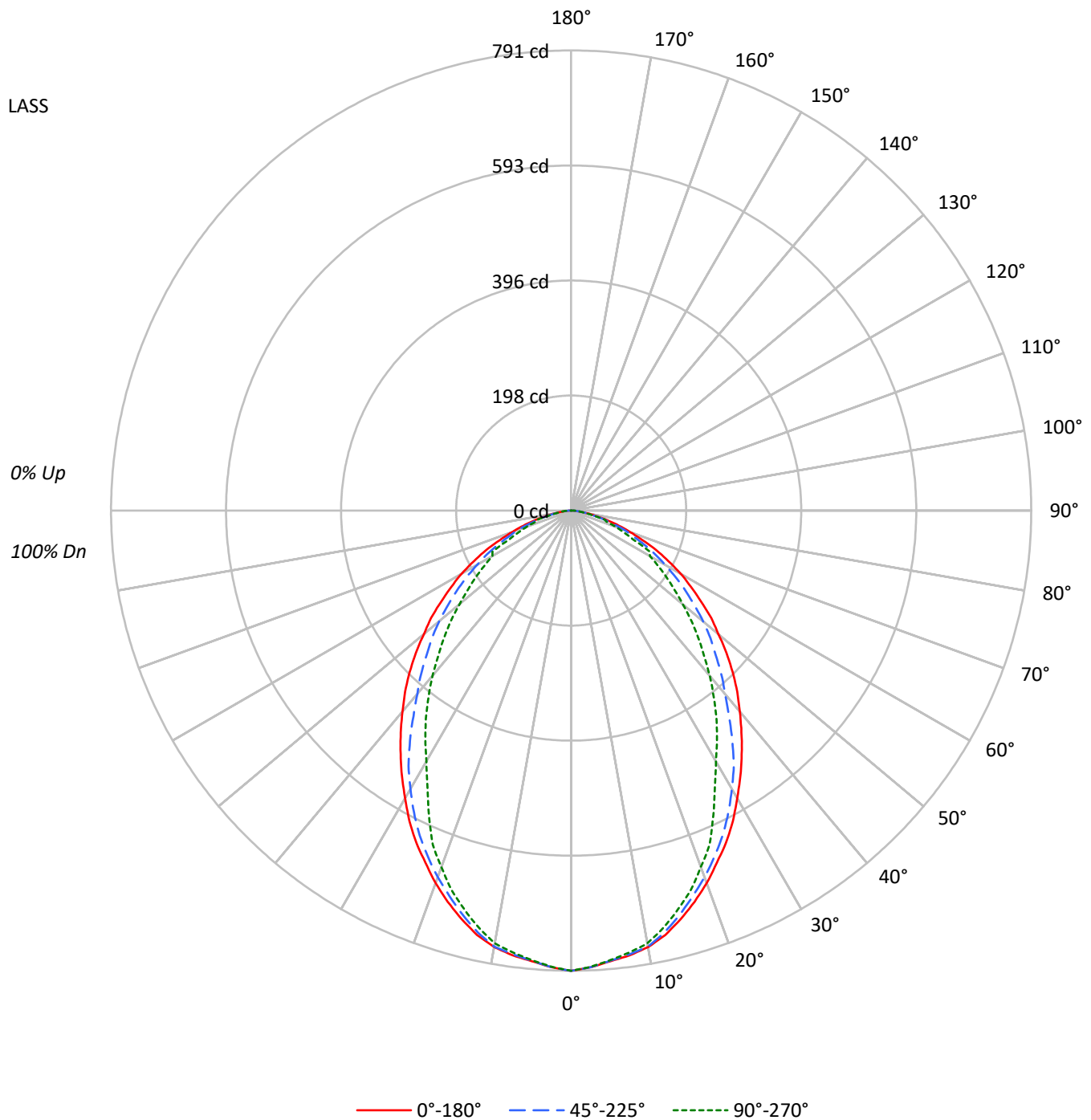
Input Watts (W): 16.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P560125

CATALOG NUMBER: FSR-12-2-LD4-1STD-50-UNV-80-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P560125

CATALOG NUMBER: FSR-12-2-LD4-1STD-50-UNV-80-96-EDD

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	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°	4258	4258	4258
5°	4200	4195	4190
10°	4163	4158	4128
15°	4051	4010	3954
20°	3902	3840	3735
25°	3742	3660	3432
30°	3547	3433	3092
35°	3359	3173	2860
40°	3168	2891	2602
45°	2986	2673	2353
50°	2764	2481	2098
55°	2557	2248	1879
60°	2343	2009	1683
65°	2062	1759	1491
70°	1698	1541	1267
75°	1350	1179	1235
80°	908	849	793
85°	562	679	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2986 cd/sqm

TEST NUMBER: P560125

CATALOG NUMBER: FSR-12-2-LD4-1STD-50-UNV-80-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	4.7
10°-20°	202.1	13.0
20°-30°	279.8	18.0
30°-40°	298.3	19.2
40°-50°	272.2	17.5
50°-60°	213.2	13.7
60°-70°	139.0	8.9
70°-80°	61.6	4.0
80°-90°	13.2	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°	555.5	35.8
0°-40°	853.9	55.0
0°-60°	1339.2	86.2
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	777	776	776	776	776	74
15°	727	727	720	712	710	204
25°	630	626	616	594	578	289
35°	511	508	483	446	435	320
45°	392	384	351	322	309	302
55°	272	264	240	211	200	244
65°	162	153	138	141	117	160
75°	65	60	57	54	59	70
85°	9	10	11	12	13	13
90°	0	0	0	0	0	



TEST NUMBER: P560125

CATALOG NUMBER: FSR-12-2-LD4-1STD-50-UNV-80-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.1	791.1	791.1	791.1	791.1
2.5°	785.6	785.6	785.6	784.7	784.7
5°	777.4	776.4	776.4	775.5	775.5
7.5°	771.0	770.0	769.1	768.2	766.4
10°	761.8	761.8	760.9	756.3	755.4
12.5°	747.2	746.3	742.6	736.2	734.4
15°	727.1	727.1	719.7	712.4	709.7
17.5°	705.1	704.2	695.1	687.7	684.1
20°	681.3	679.5	670.4	658.5	652.1
22.5°	654.8	654.8	643.8	628.3	621.9
25°	630.1	626.5	616.4	594.5	578.0
27.5°	601.8	596.3	585.3	554.2	535.0
30°	570.7	567.9	552.4	512.1	497.5
32.5°	541.4	536.8	520.4	478.3	466.4
35°	511.2	507.6	482.9	446.3	435.3
37.5°	481.0	476.5	445.4	416.1	402.4
40°	450.9	445.4	411.5	385.0	370.4
42.5°	422.5	415.2	382.3	353.9	337.5
45°	392.3	384.1	351.2	321.9	309.1
47.5°	362.2	354.8	324.7	294.5	279.8
50°	330.1	323.7	296.3	266.1	250.6
52.5°	303.6	293.6	267.0	236.9	224.1
55°	272.5	264.3	239.6	211.3	200.3
57.5°	244.2	236.0	213.1	186.6	177.4
60°	217.7	205.8	186.6	163.7	156.4
62.5°	188.4	179.2	162.8	143.6	152.7
65°	161.9	152.7	138.1	140.8	117.1
67.5°	132.6	128.0	115.2	102.4	98.8
70°	107.9	102.4	97.9	84.1	80.5
72.5°	86.0	80.5	74.1	66.8	64.0
75°	64.9	60.4	56.7	54.0	59.4
77.5°	44.8	43.0	40.2	37.5	36.6
80°	29.3	28.4	27.4	26.5	25.6
82.5°	17.4	17.4	17.4	17.4	17.4
85°	9.1	10.1	11.0	11.9	12.8
87.5°	5.5	5.5	6.4	7.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)