

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: P558833

Luminaire Tested: FSR-12-1-LD4-1STD-35-UNV-80-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558833
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-LD4-1STD-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 787.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

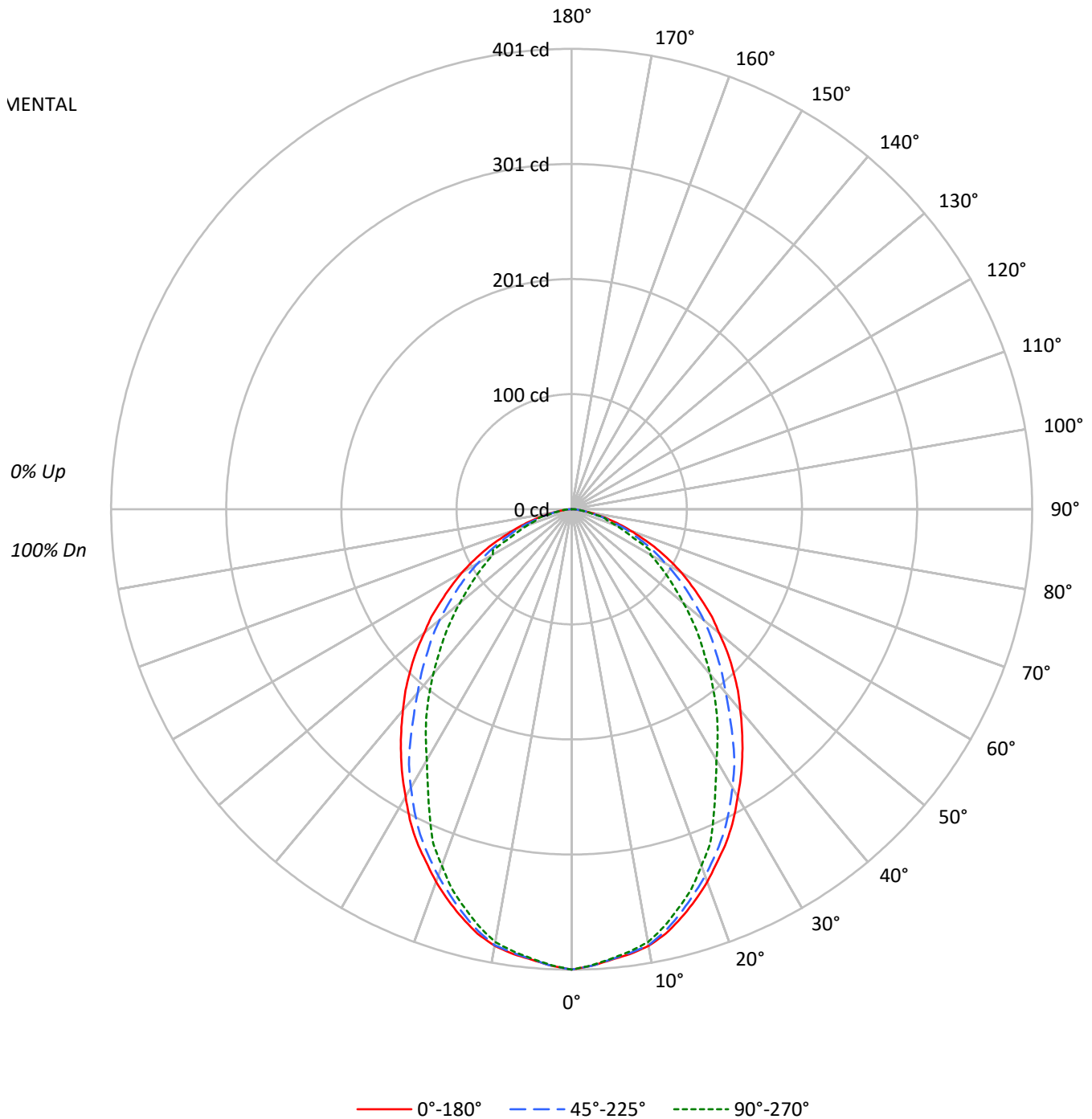
Input Watts (W): 8.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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°	4315	4315	4315
5°	4256	4252	4246
10°	4220	4215	4184
15°	4105	4064	4007
20°	3955	3891	3785
25°	3792	3710	3479
30°	3594	3479	3133
35°	3405	3215	2899
40°	3211	2931	2637
45°	3026	2710	2384
50°	2802	2515	2127
55°	2592	2278	1905
60°	2375	2034	1707
65°	2089	1783	1510
70°	1721	1561	1284
75°	1368	1194	1252
80°	917	862	806
85°	568	692	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	4.7
10°-20°	102.4	13.0
20°-30°	141.8	18.0
30°-40°	151.2	19.2
40°-50°	137.9	17.5
50°-60°	108.1	13.7
60°-70°	70.4	8.9
70°-80°	31.2	4.0
80°-90°	6.7	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°	281.5	35.8
0°-40°	432.7	55.0
0°-60°	678.7	86.2
0°-90°	787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	394	394	394	393	393	37
15°	368	368	365	361	360	104
25°	319	318	312	301	293	147
35°	259	257	245	226	221	162
45°	199	195	178	163	157	153
55°	138	134	121	107	102	124
65°	82	77	70	71	59	81
75°	33	31	29	27	30	35
85°	5	5	6	6	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.9	400.9	400.9	400.9	400.9
2.5°	398.1	398.1	398.1	397.6	397.6
5°	393.9	393.5	393.5	393.0	393.0
7.5°	390.7	390.2	389.8	389.3	388.4
10°	386.1	386.1	385.6	383.3	382.8
12.5°	378.6	378.2	376.3	373.1	372.2
15°	368.4	368.4	364.7	361.0	359.6
17.5°	357.3	356.9	352.2	348.5	346.7
20°	345.3	344.3	339.7	333.7	330.4
22.5°	331.8	331.8	326.3	318.4	315.1
25°	319.3	317.5	312.4	301.2	292.9
27.5°	305.0	302.2	296.6	280.9	271.1
30°	289.2	287.8	279.9	259.5	252.1
32.5°	274.4	272.0	263.7	242.4	236.4
35°	259.1	257.2	244.7	226.2	220.6
37.5°	243.8	241.5	225.7	210.9	203.9
40°	228.5	225.7	208.6	195.1	187.7
42.5°	214.1	210.4	193.7	179.4	171.0
45°	198.8	194.7	178.0	163.1	156.6
47.5°	183.5	179.8	164.5	149.2	141.8
50°	167.3	164.1	150.2	134.9	127.0
52.5°	153.9	148.8	135.3	120.0	113.5
55°	138.1	133.9	121.4	107.1	101.5
57.5°	123.7	119.6	108.0	94.5	89.9
60°	110.3	104.3	94.5	83.0	79.3
62.5°	95.5	90.8	82.5	72.8	77.4
65°	82.0	77.4	70.0	71.4	59.3
67.5°	67.2	64.9	58.4	51.9	50.1
70°	54.7	51.9	49.6	42.6	40.8
72.5°	43.6	40.8	37.5	33.8	32.4
75°	32.9	30.6	28.7	27.3	30.1
77.5°	22.7	21.8	20.4	19.0	18.5
80°	14.8	14.4	13.9	13.4	13.0
82.5°	8.8	8.8	8.8	8.8	8.8
85°	4.6	5.1	5.6	6.0	6.5
87.5°	2.8	2.8	3.2	3.7	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)