

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: P560625

Luminaire Tested: FSR-12-2-LD4-2STD-40-UNV-80-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560625
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-LD4-2STD-40-UNV-80-84-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONM
SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

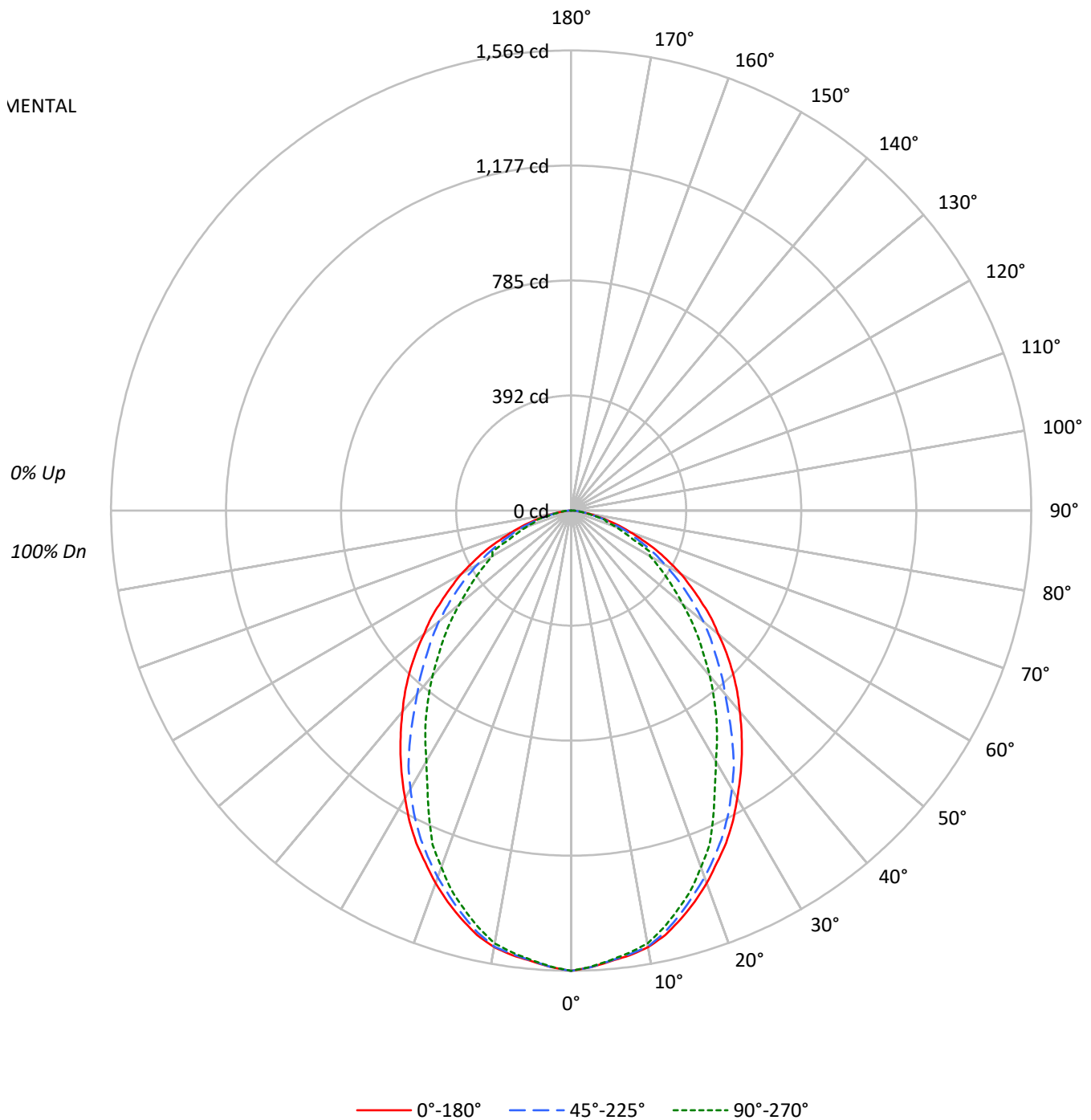
Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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																												
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°	8446	8446	8446
5°	8332	8322	8312
10°	8260	8249	8190
15°	8037	7956	7845
20°	7742	7617	7409
25°	7424	7262	6809
30°	7036	6811	6134
35°	6663	6294	5674
40°	6284	5736	5162
45°	5925	5303	4668
50°	5484	4922	4162
55°	5073	4461	3728
60°	4648	3984	3340
65°	4089	3489	2957
70°	3369	3054	2513
75°	2678	2339	2452
80°	1801	1686	1574
85°	1118	1346	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.7
10°-20°	400.9	13.0
20°-30°	555.1	18.0
30°-40°	591.9	19.2
40°-50°	540.0	17.5
50°-60°	423.0	13.7
60°-70°	275.7	8.9
70°-80°	122.1	4.0
80°-90°	26.2	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°	1102.1	35.8
0°-40°	1694.0	55.0
0°-60°	2656.9	86.2
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1542	1540	1540	1539	1539	146
15°	1442	1442	1428	1413	1408	406
25°	1250	1243	1223	1179	1147	574
35°	1014	1007	958	885	864	634
45°	778	762	697	639	613	600
55°	541	524	475	419	397	485
65°	321	303	274	279	232	316
75°	129	120	112	107	118	138
85°	18	20	22	24	25	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1558.5	1558.5	1558.5	1556.7	1556.7
5°	1542.2	1540.4	1540.4	1538.6	1538.6
7.5°	1529.5	1527.7	1525.9	1524.1	1520.4
10°	1511.4	1511.4	1509.5	1500.5	1498.7
12.5°	1482.3	1480.5	1473.3	1460.6	1456.9
15°	1442.4	1442.4	1427.9	1413.4	1407.9
17.5°	1398.9	1397.1	1378.9	1364.4	1357.1
20°	1351.7	1348.1	1329.9	1306.3	1293.6
22.5°	1299.1	1299.1	1277.3	1246.5	1233.8
25°	1250.1	1242.8	1222.9	1179.3	1146.7
27.5°	1193.8	1183.0	1161.2	1099.5	1061.4
30°	1132.2	1126.7	1095.9	1016.0	987.0
32.5°	1074.1	1065.0	1032.4	948.9	925.3
35°	1014.2	1007.0	958.0	885.4	863.6
37.5°	954.4	945.3	883.6	825.5	798.3
40°	894.5	883.6	816.5	763.8	734.8
42.5°	838.2	823.7	758.4	702.2	669.5
45°	778.4	762.0	696.7	638.7	613.3
47.5°	718.5	704.0	644.1	584.2	555.2
50°	655.0	642.3	587.9	528.0	497.1
52.5°	602.4	582.4	529.8	469.9	444.5
55°	540.7	524.3	475.4	419.1	397.3
57.5°	484.4	468.1	422.7	370.1	352.0
60°	431.8	408.2	370.1	324.8	310.3
62.5°	373.8	355.6	323.0	284.9	303.0
65°	321.1	303.0	274.0	279.4	232.2
67.5°	263.1	254.0	228.6	203.2	196.0
70°	214.1	203.2	194.1	166.9	159.7
72.5°	170.5	159.7	147.0	132.4	127.0
75°	128.8	119.7	112.5	107.0	117.9
77.5°	88.9	85.3	79.8	74.4	72.6
80°	58.1	56.2	54.4	52.6	50.8
82.5°	34.5	34.5	34.5	34.5	34.5
85°	18.1	20.0	21.8	23.6	25.4
87.5°	10.9	10.9	12.7	14.5	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)