

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: P560633

Luminaire Tested: FSR-12-2-LD4-2STD-40-UNV-80-88-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P560633
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-80-88-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

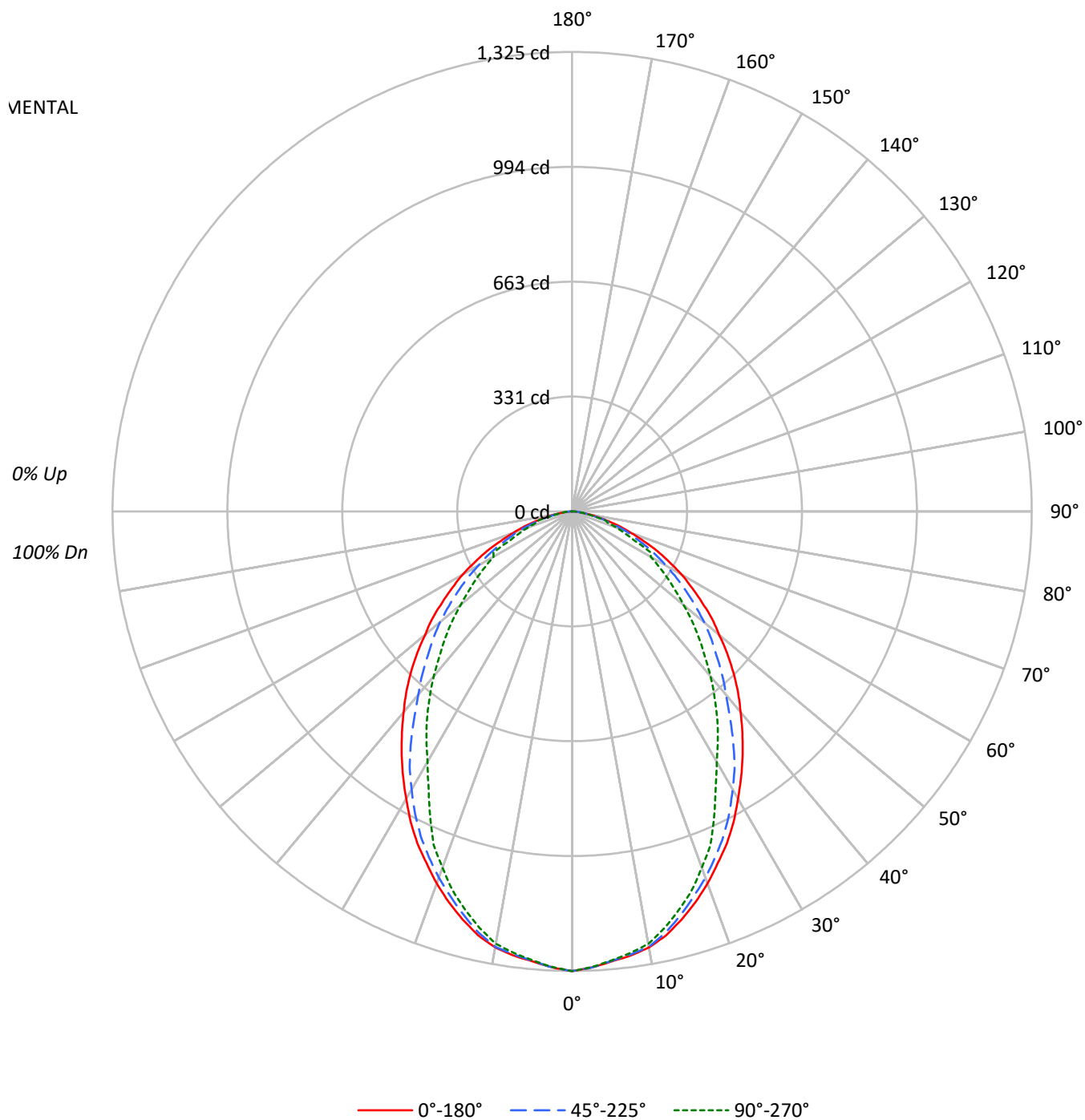
Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	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°	7133	7133	7133
5°	7036	7028	7020
10°	6976	6967	6917
15°	6788	6719	6625
20°	6538	6433	6257
25°	6269	6133	5751
30°	5942	5752	5180
35°	5627	5315	4792
40°	5307	4844	4360
45°	5003	4478	3942
50°	4632	4157	3515
55°	4284	3767	3149
60°	3926	3365	2820
65°	3454	2947	2497
70°	2845	2581	2121
75°	2262	1975	2071
80°	1519	1426	1330
85°	945	1136	1328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	4.7
10°-20°	338.6	13.0
20°-30°	468.8	18.0
30°-40°	499.8	19.2
40°-50°	456.0	17.5
50°-60°	357.3	13.7
60°-70°	232.8	8.9
70°-80°	103.2	4.0
80°-90°	22.1	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°	930.8	35.8
0°-40°	1430.6	55.0
0°-60°	2243.9	86.2
0°-90°	2602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1302	1301	1301	1299	1299	124
15°	1218	1218	1206	1194	1189	342
25°	1056	1050	1033	996	968	485
35°	856	850	809	748	729	535
45°	657	644	588	539	518	506
55°	457	443	402	354	336	410
65°	271	256	231	236	196	267
75°	109	101	95	90	100	117
85°	15	17	18	20	22	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1316.2	1316.2	1316.2	1314.7	1314.7
5°	1302.4	1300.9	1300.9	1299.4	1299.4
7.5°	1291.7	1290.2	1288.6	1287.1	1284.1
10°	1276.4	1276.4	1274.9	1267.2	1265.7
12.5°	1251.9	1250.3	1244.2	1233.5	1230.4
15°	1218.2	1218.2	1205.9	1193.6	1189.1
17.5°	1181.4	1179.9	1164.5	1152.3	1146.1
20°	1141.6	1138.5	1123.2	1103.2	1092.5
22.5°	1097.1	1097.1	1078.7	1052.7	1042.0
25°	1055.7	1049.6	1032.8	996.0	968.4
27.5°	1008.2	999.0	980.7	928.6	896.4
30°	956.1	951.5	925.5	858.1	833.6
32.5°	907.1	899.4	871.9	801.4	781.5
35°	856.5	850.4	809.0	747.8	729.4
37.5°	806.0	798.3	746.2	697.2	674.2
40°	755.4	746.2	689.5	645.1	620.6
42.5°	707.9	695.7	640.5	593.0	565.4
45°	657.3	643.6	588.4	539.4	517.9
47.5°	606.8	594.5	544.0	493.4	468.9
50°	553.2	542.4	496.5	445.9	419.8
52.5°	508.7	491.9	447.4	396.9	375.4
55°	456.6	442.8	401.5	354.0	335.6
57.5°	409.1	395.3	357.0	312.6	297.3
60°	364.7	344.8	312.6	274.3	262.0
62.5°	315.7	300.3	272.7	240.6	255.9
65°	271.2	255.9	231.4	236.0	196.1
67.5°	222.2	214.5	193.1	171.6	165.5
70°	180.8	171.6	164.0	141.0	134.8
72.5°	144.0	134.8	124.1	111.9	107.3
75°	108.8	101.1	95.0	90.4	99.6
77.5°	75.1	72.0	67.4	62.8	61.3
80°	49.0	47.5	46.0	44.4	42.9
82.5°	29.1	29.1	29.1	29.1	29.1
85°	15.3	16.9	18.4	19.9	21.5
87.5°	9.2	9.2	10.7	12.3	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)