

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: P559729

Luminaire Tested: FSR-12-2-LD4-1HI-50-UNV-80-84-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P559729
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-LD4-1HI-50-UNV-80-84-EDD
Description: 1X2 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

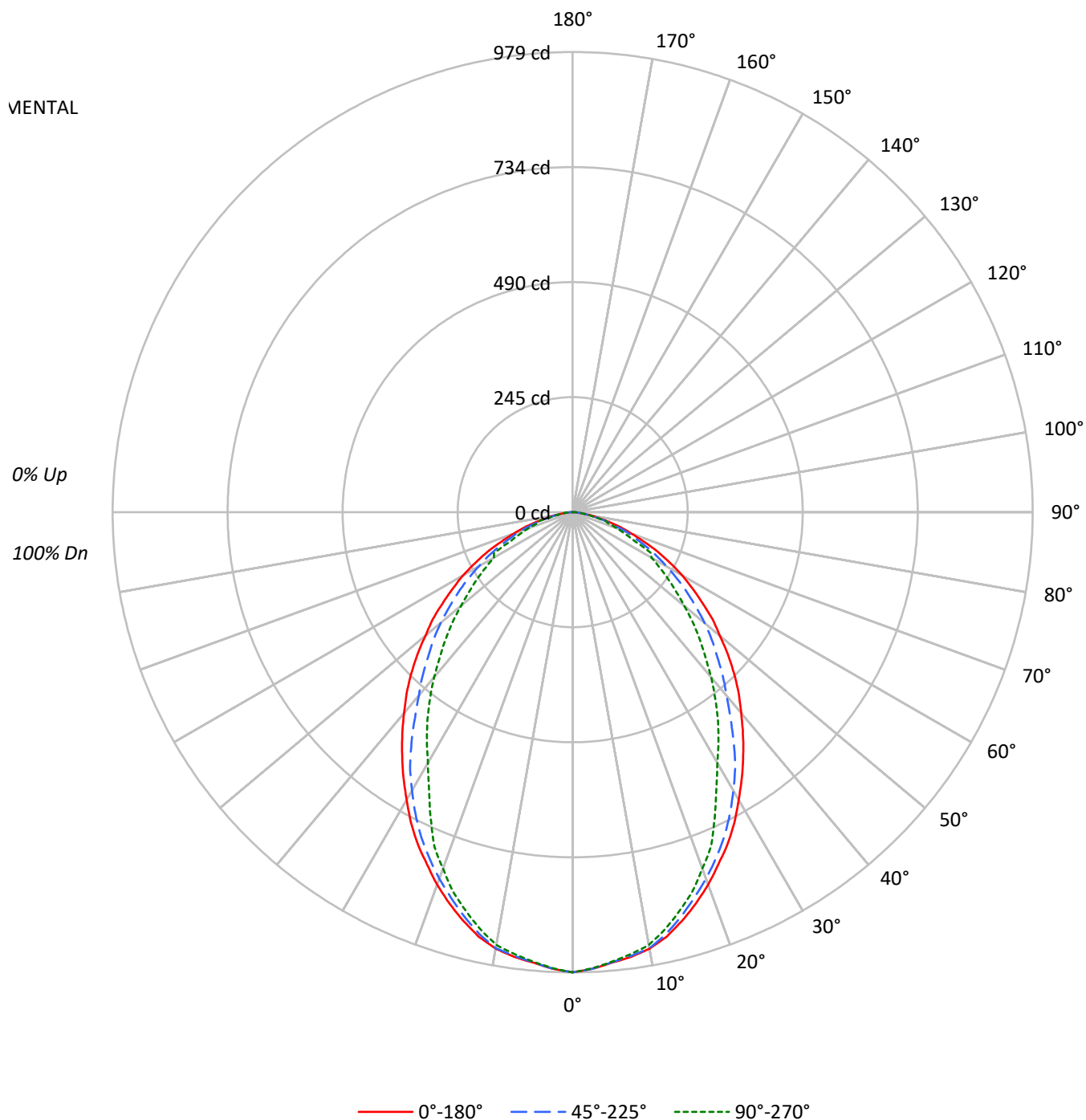
Input Watts (W): 21.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	48		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°	5269	5269	5269
5°	5198	5191	5185
10°	5152	5146	5109
15°	5014	4963	4894
20°	4829	4751	4622
25°	4631	4530	4248
30°	4389	4248	3826
35°	4157	3926	3540
40°	3920	3578	3221
45°	3696	3308	2912
50°	3421	3070	2596
55°	3165	2782	2326
60°	2900	2485	2083
65°	2551	2176	1845
70°	2102	1906	1567
75°	1672	1460	1530
80°	1122	1054	982
85°	698	840	976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	4.7
10°-20°	250.1	13.0
20°-30°	346.3	18.0
30°-40°	369.2	19.2
40°-50°	336.8	17.5
50°-60°	263.9	13.7
60°-70°	172.0	8.9
70°-80°	76.2	4.0
80°-90°	16.4	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°	687.5	35.8
0°-40°	1056.7	55.0
0°-60°	1657.5	86.2
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	962	961	961	960	960	91
15°	900	900	891	882	878	253
25°	780	775	763	736	715	358
35°	633	628	598	552	539	396
45°	486	475	435	398	383	374
55°	337	327	296	262	248	303
65°	200	189	171	174	145	197
75°	80	75	70	67	74	86
85°	11	12	14	15	16	16
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.0	979.0	979.0	979.0	979.0
2.5°	972.3	972.3	972.3	971.1	971.1
5°	962.1	960.9	960.9	959.8	959.8
7.5°	954.1	953.0	951.9	950.7	948.5
10°	942.8	942.8	941.7	936.0	934.9
12.5°	924.7	923.6	919.1	911.1	908.9
15°	899.8	899.8	890.8	881.7	878.3
17.5°	872.6	871.5	860.2	851.1	846.6
20°	843.2	841.0	829.6	814.9	807.0
22.5°	810.4	810.4	796.8	777.6	769.7
25°	779.8	775.3	762.9	735.7	715.3
27.5°	744.8	738.0	724.4	685.9	662.1
30°	706.3	702.9	683.6	633.8	615.7
32.5°	670.0	664.4	644.0	592.0	577.2
35°	632.7	628.2	597.6	552.3	538.8
37.5°	595.3	589.7	551.2	515.0	498.0
40°	558.0	551.2	509.3	476.5	458.4
42.5°	522.9	513.9	473.1	438.0	417.6
45°	485.6	475.4	434.6	398.4	382.6
47.5°	448.2	439.2	401.8	364.5	346.3
50°	408.6	400.7	366.7	329.4	310.1
52.5°	375.8	363.3	330.5	293.1	277.3
55°	337.3	327.1	296.5	261.5	247.9
57.5°	302.2	292.0	263.7	230.9	219.6
60°	269.4	254.7	230.9	202.6	193.5
62.5°	233.2	221.8	201.5	177.7	189.0
65°	200.3	189.0	170.9	174.3	144.9
67.5°	164.1	158.5	142.6	126.8	122.2
70°	133.6	126.8	121.1	104.1	99.6
72.5°	106.4	99.6	91.7	82.6	79.2
75°	80.4	74.7	70.2	66.8	73.6
77.5°	55.5	53.2	49.8	46.4	45.3
80°	36.2	35.1	34.0	32.8	31.7
82.5°	21.5	21.5	21.5	21.5	21.5
85°	11.3	12.5	13.6	14.7	15.8
87.5°	6.8	6.8	7.9	9.1	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)