

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P307500

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-5700K**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P307500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5700K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2717.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

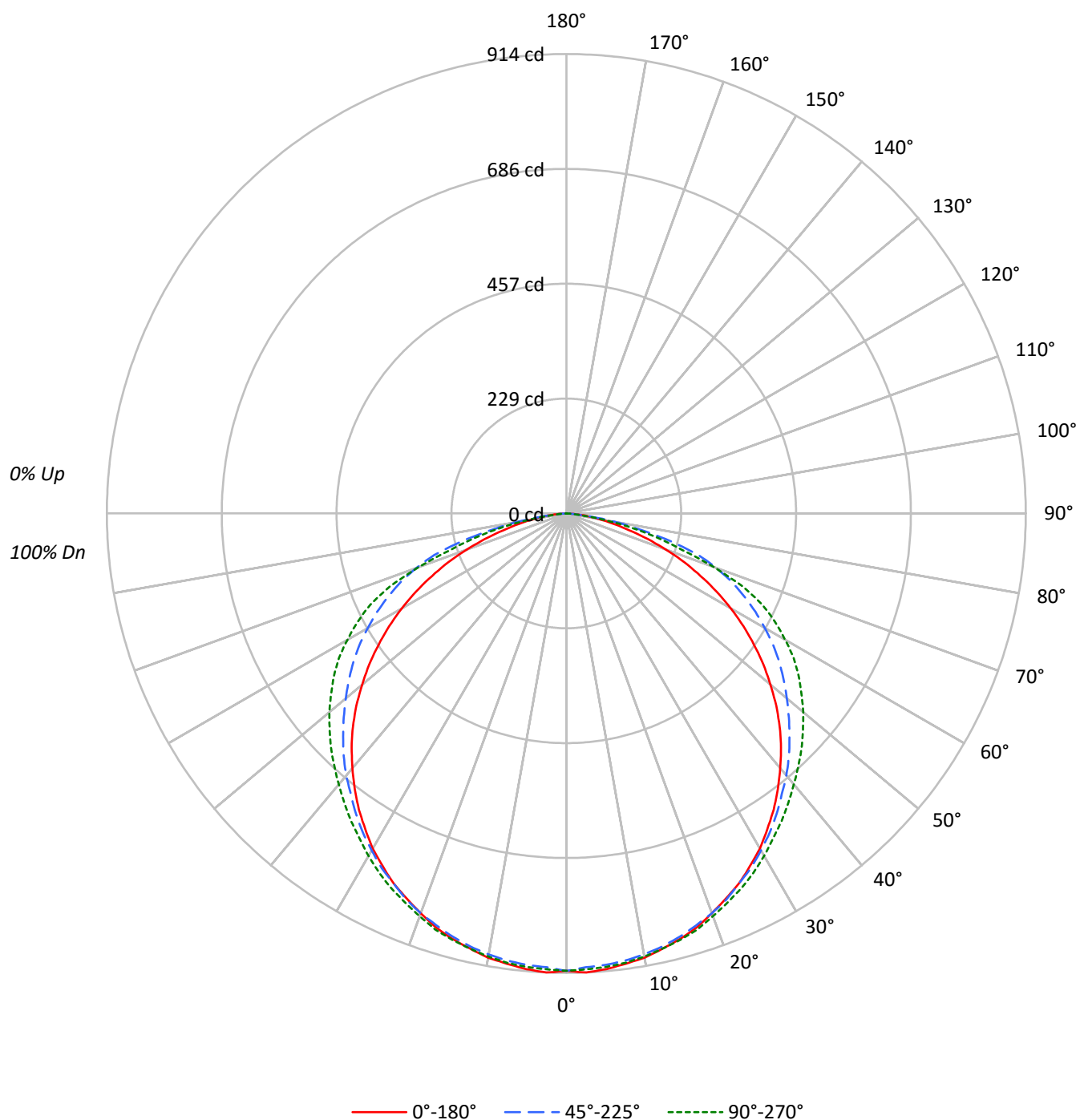
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2449	2449	2449
5°	2458	2435	2447
10°	2452	2434	2446
15°	2441	2429	2447
20°	2424	2424	2442
25°	2412	2412	2444
30°	2393	2406	2445
35°	2362	2397	2453
40°	2325	2392	2474
45°	2285	2390	2519
50°	2220	2398	2575
55°	2140	2428	2647
60°	2032	2455	2706
65°	1877	2485	2742
70°	1669	2504	2453
75°	1345	2250	1963
80°	1052	1578	1282
85°	719	457	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.2
10°-20°	247.1	9.1
20°-30°	376.3	13.8
30°-40°	458.3	16.9
40°-50°	486.2	17.9
50°-60°	458.9	16.9
60°-70°	370.5	13.6
70°-80°	201.0	7.4
80°-90°	32.5	1.2
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°	709.5	26.1
0°-40°	1167.8	43.0
0°-60°	2113.0	77.8
0°-90°	2717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	910	908	902	908	906	86
15°	876	874	872	878	878	247
25°	812	810	812	821	823	374
35°	719	723	730	744	747	450
45°	600	609	628	651	662	462
55°	456	475	518	552	564	407
65°	295	331	390	422	431	292
75°	129	189	216	195	189	141
85°	23	26	15	13	11	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.0	910.0	910.0	910.0	910.0
2.5°	914.2	910.0	903.6	910.0	907.9
5°	910.0	907.9	901.5	907.9	905.8
7.5°	903.6	903.6	897.3	901.5	901.5
10°	897.3	895.1	890.9	897.3	895.1
12.5°	886.7	884.5	882.4	888.8	886.7
15°	876.1	873.9	871.8	878.2	878.2
17.5°	863.3	861.2	859.1	867.6	867.6
20°	846.4	846.4	846.4	854.8	852.7
22.5°	829.4	829.4	831.5	840.0	837.9
25°	812.4	810.3	812.4	820.9	823.0
27.5°	791.2	793.3	795.4	803.9	806.1
30°	770.0	772.1	774.2	784.8	787.0
32.5°	744.5	748.8	753.0	765.8	765.8
35°	719.1	723.3	729.7	744.5	746.7
37.5°	691.5	695.8	704.2	721.2	725.4
40°	661.8	668.2	680.9	697.9	704.2
42.5°	632.1	640.6	655.4	674.5	683.0
45°	600.3	608.8	627.9	651.2	661.8
47.5°	566.4	577.0	600.3	630.0	638.5
50°	530.3	545.1	572.7	604.5	615.1
52.5°	494.2	511.2	545.1	579.1	589.7
55°	456.1	475.1	517.6	551.5	564.2
57.5°	417.9	439.1	487.9	523.9	536.7
60°	377.6	403.0	456.1	492.1	502.7
62.5°	337.3	367.0	424.2	460.3	468.8
65°	294.8	330.9	390.3	422.1	430.6
67.5°	254.5	297.0	356.4	379.7	379.7
70°	212.1	258.8	318.2	324.5	311.8
72.5°	169.7	222.7	275.8	252.4	241.8
75°	129.4	188.8	216.4	195.1	188.8
77.5°	97.6	152.7	152.7	140.0	135.8
80°	67.9	116.7	101.8	89.1	82.7
82.5°	44.5	65.8	53.0	42.4	36.1
85°	23.3	25.5	14.8	12.7	10.6
87.5°	8.5	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)