

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: P307408

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-W2A-U-5000K**

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: P307408
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: 14FCZ2-35-UNV-L82765-RDP-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2175.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

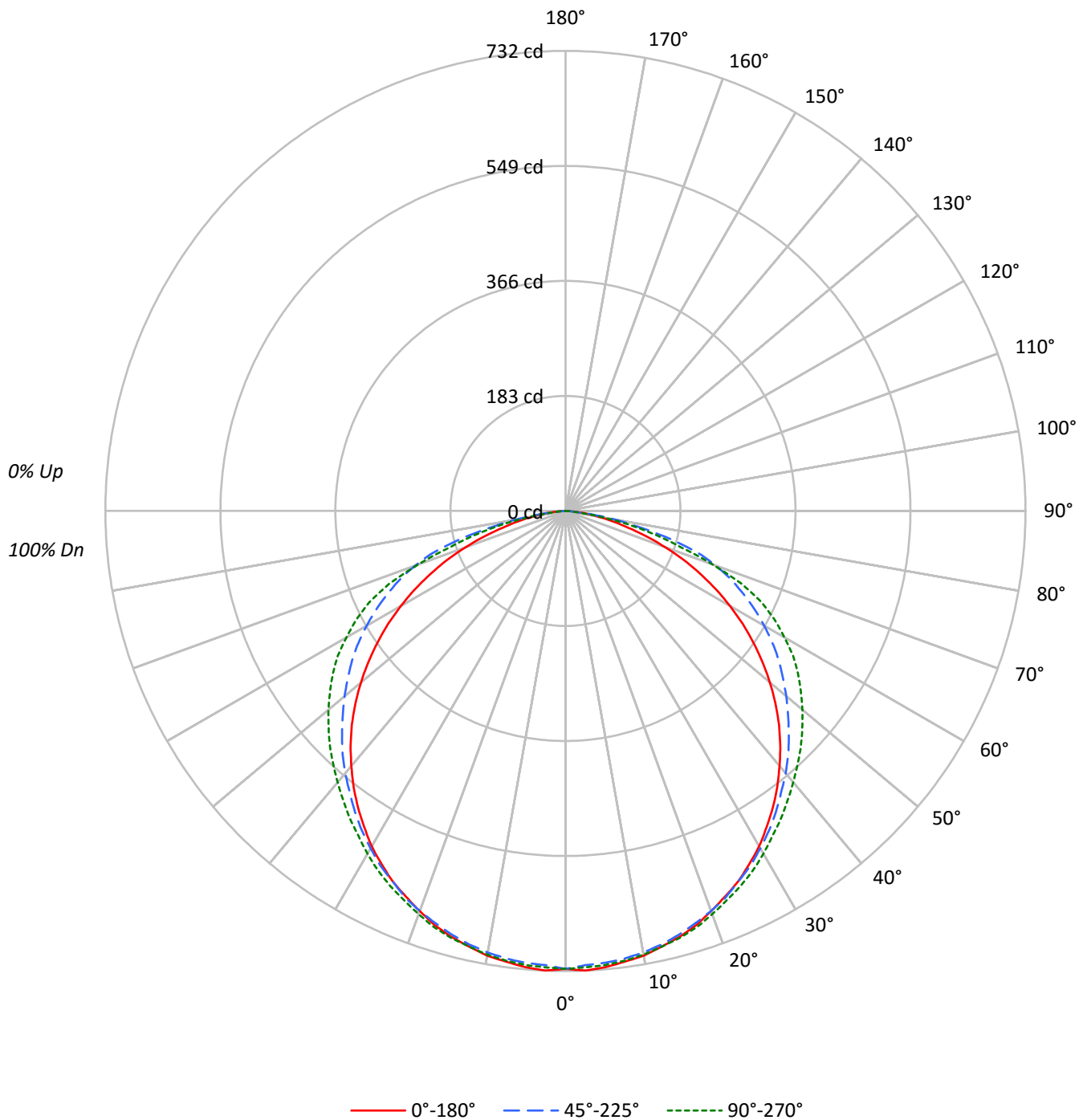
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1960	1960	1960
5°	1968	1949	1959
10°	1963	1949	1958
15°	1954	1944	1958
20°	1940	1940	1955
25°	1931	1931	1956
30°	1915	1926	1958
35°	1891	1919	1963
40°	1861	1915	1981
45°	1829	1913	2016
50°	1777	1919	2061
55°	1713	1944	2119
60°	1627	1965	2166
65°	1503	1989	2195
70°	1336	2004	1964
75°	1077	1801	1571
80°	841	1263	1026
85°	577	367	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.2
10°-20°	197.8	9.1
20°-30°	301.2	13.8
30°-40°	366.9	16.9
40°-50°	389.2	17.9
50°-60°	367.4	16.9
60°-70°	296.6	13.6
70°-80°	160.9	7.4
80°-90°	26.0	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°	568.0	26.1
0°-40°	934.9	43.0
0°-60°	1691.5	77.8
0°-90°	2175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	728	727	722	727	725	69
15°	701	700	698	703	703	198
25°	650	649	650	657	659	299
35°	576	579	584	596	598	360
45°	480	487	503	521	530	370
55°	365	380	414	442	452	326
65°	236	265	312	338	345	234
75°	104	151	173	156	151	113
85°	19	20	12	10	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.5	728.5	728.5	728.5	728.5
2.5°	731.9	728.5	723.4	728.5	726.8
5°	728.5	726.8	721.7	726.8	725.1
7.5°	723.4	723.4	718.3	721.7	721.7
10°	718.3	716.6	713.2	718.3	716.6
12.5°	709.8	708.1	706.4	711.5	709.8
15°	701.3	699.6	697.9	703.0	703.0
17.5°	691.1	689.4	687.7	694.5	694.5
20°	677.5	677.5	677.5	684.3	682.6
22.5°	663.9	663.9	665.6	672.4	670.7
25°	650.4	648.7	650.4	657.1	658.8
27.5°	633.4	635.1	636.8	643.6	645.3
30°	616.4	618.1	619.8	628.3	630.0
32.5°	596.0	599.4	602.8	613.0	613.0
35°	575.6	579.0	584.1	596.0	597.7
37.5°	553.6	557.0	563.8	577.3	580.7
40°	529.8	534.9	545.1	558.7	563.8
42.5°	506.0	512.8	524.7	540.0	546.8
45°	480.5	487.3	502.6	521.3	529.8
47.5°	453.4	461.9	480.5	504.3	511.1
50°	424.5	436.4	458.5	483.9	492.4
52.5°	395.6	409.2	436.4	463.6	472.1
55°	365.1	380.4	414.3	441.5	451.7
57.5°	334.5	351.5	390.6	419.4	429.6
60°	302.3	322.6	365.1	393.9	402.4
62.5°	270.0	293.8	339.6	368.5	375.3
65°	236.0	264.9	312.4	337.9	344.7
67.5°	203.8	237.7	285.3	304.0	304.0
70°	169.8	207.2	254.7	259.8	249.6
72.5°	135.8	178.3	220.7	202.1	193.6
75°	103.6	151.1	173.2	156.2	151.1
77.5°	78.1	122.3	122.3	112.1	108.7
80°	54.3	93.4	81.5	71.3	66.2
82.5°	35.7	52.6	42.5	34.0	28.9
85°	18.7	20.4	11.9	10.2	8.5
87.5°	6.8	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)