

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: P307407

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-W2A-U-4500K**

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: P307407
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-4500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 4500K 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: 2146.0 lumens
Efficiency: N/A
Efficacy: 71.3 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

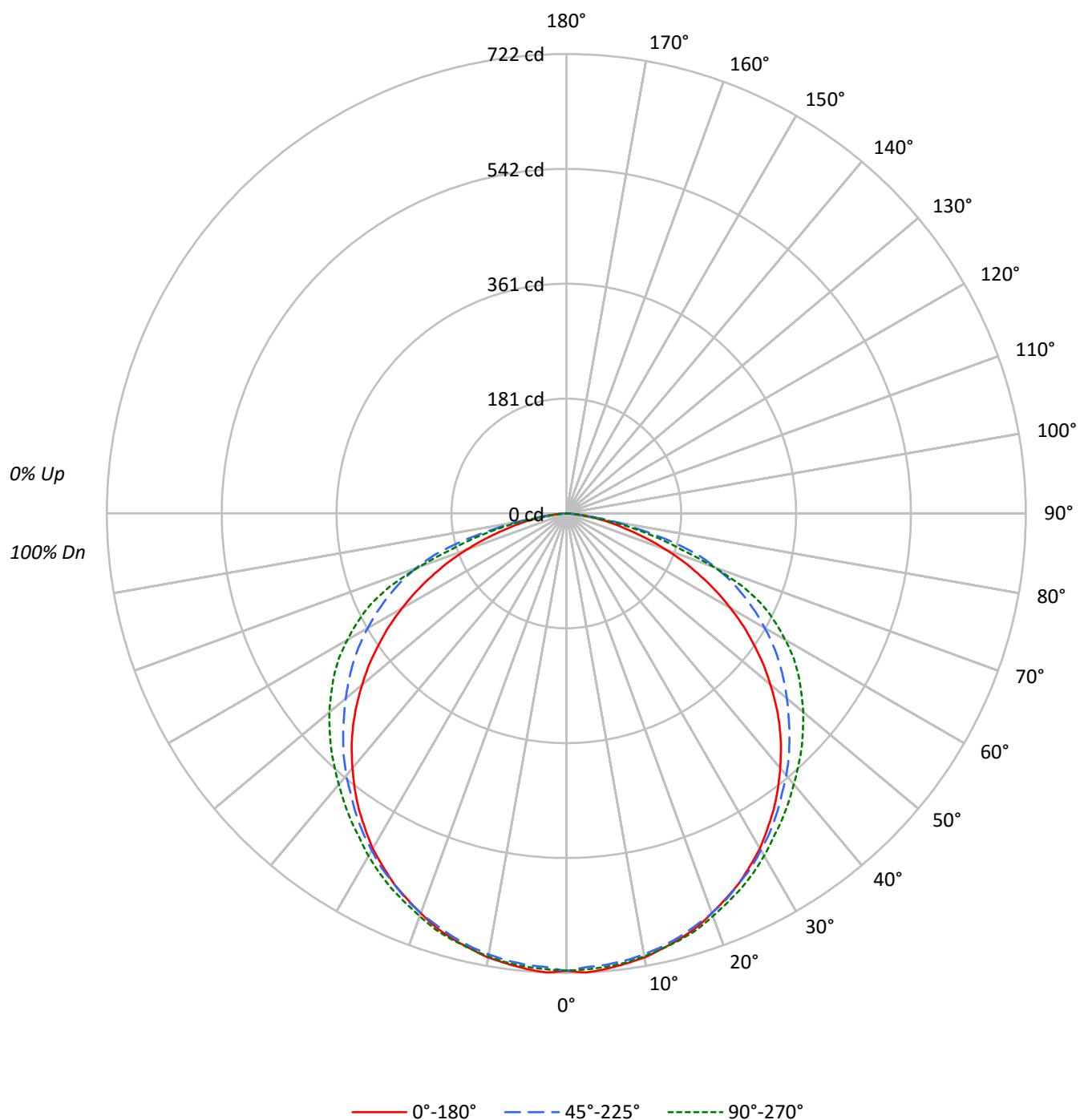
Input Watts (W): 30.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1934	1934	1934
5°	1942	1923	1932
10°	1937	1923	1932
15°	1928	1918	1932
20°	1914	1914	1929
25°	1905	1905	1930
30°	1890	1900	1931
35°	1866	1893	1937
40°	1836	1889	1954
45°	1804	1887	1989
50°	1754	1894	2034
55°	1690	1918	2091
60°	1605	1939	2137
65°	1483	1963	2166
70°	1318	1977	1938
75°	1063	1777	1550
80°	831	1246	1012
85°	568	361	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.2
10°-20°	195.2	9.1
20°-30°	297.2	13.8
30°-40°	362.0	16.9
40°-50°	384.0	17.9
50°-60°	362.5	16.9
60°-70°	292.7	13.6
70°-80°	158.7	7.4
80°-90°	25.7	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°	560.4	26.1
0°-40°	922.4	43.0
0°-60°	1668.9	77.8
0°-90°	2146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	719	717	712	717	715	68
15°	692	690	689	694	694	195
25°	642	640	642	648	650	295
35°	568	571	576	588	590	355
45°	474	481	496	514	523	365
55°	360	375	409	436	446	322
65°	233	261	308	333	340	231
75°	102	149	171	154	149	112
85°	18	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°	718.8	718.8	718.8	718.8	718.8
2.5°	722.1	718.8	713.7	718.8	717.1
5°	718.8	717.1	712.0	717.1	715.4
7.5°	713.7	713.7	708.7	712.0	712.0
10°	708.7	707.0	703.7	708.7	707.0
12.5°	700.3	698.6	697.0	702.0	700.3
15°	691.9	690.3	688.6	693.6	693.6
17.5°	681.9	680.2	678.5	685.2	685.2
20°	668.5	668.5	668.5	675.2	673.5
22.5°	655.1	655.1	656.8	663.5	661.8
25°	641.7	640.0	641.7	648.4	650.1
27.5°	624.9	626.6	628.3	635.0	636.7
30°	608.2	609.8	611.5	619.9	621.6
32.5°	588.1	591.4	594.8	604.8	604.8
35°	568.0	571.3	576.3	588.1	589.7
37.5°	546.2	549.5	556.2	569.6	573.0
40°	522.7	527.8	537.8	551.2	556.2
42.5°	499.3	506.0	517.7	532.8	539.5
45°	474.1	480.8	495.9	514.4	522.7
47.5°	447.3	455.7	474.1	497.6	504.3
50°	418.9	430.6	452.4	477.5	485.9
52.5°	390.4	403.8	430.6	457.4	465.8
55°	360.2	375.3	408.8	435.6	445.7
57.5°	330.1	346.8	385.3	413.8	423.9
60°	298.2	318.3	360.2	388.7	397.1
62.5°	266.4	289.8	335.1	363.6	370.3
65°	232.9	261.4	308.3	333.4	340.1
67.5°	201.0	234.6	281.5	299.9	299.9
70°	167.5	204.4	251.3	256.3	246.3
72.5°	134.0	175.9	217.8	199.4	191.0
75°	102.2	149.1	170.9	154.1	149.1
77.5°	77.1	120.6	120.6	110.6	107.2
80°	53.6	92.1	80.4	70.4	65.3
82.5°	35.2	51.9	41.9	33.5	28.5
85°	18.4	20.1	11.7	10.1	8.4
87.5°	6.7	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)