

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: P307393

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA08-W2A-U-6500K**

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: P307393
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-CA08-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC SHEET
Light Source: (168) 6500K 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: 2260.0 lumens
Efficiency: N/A
Efficacy: 73.4 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

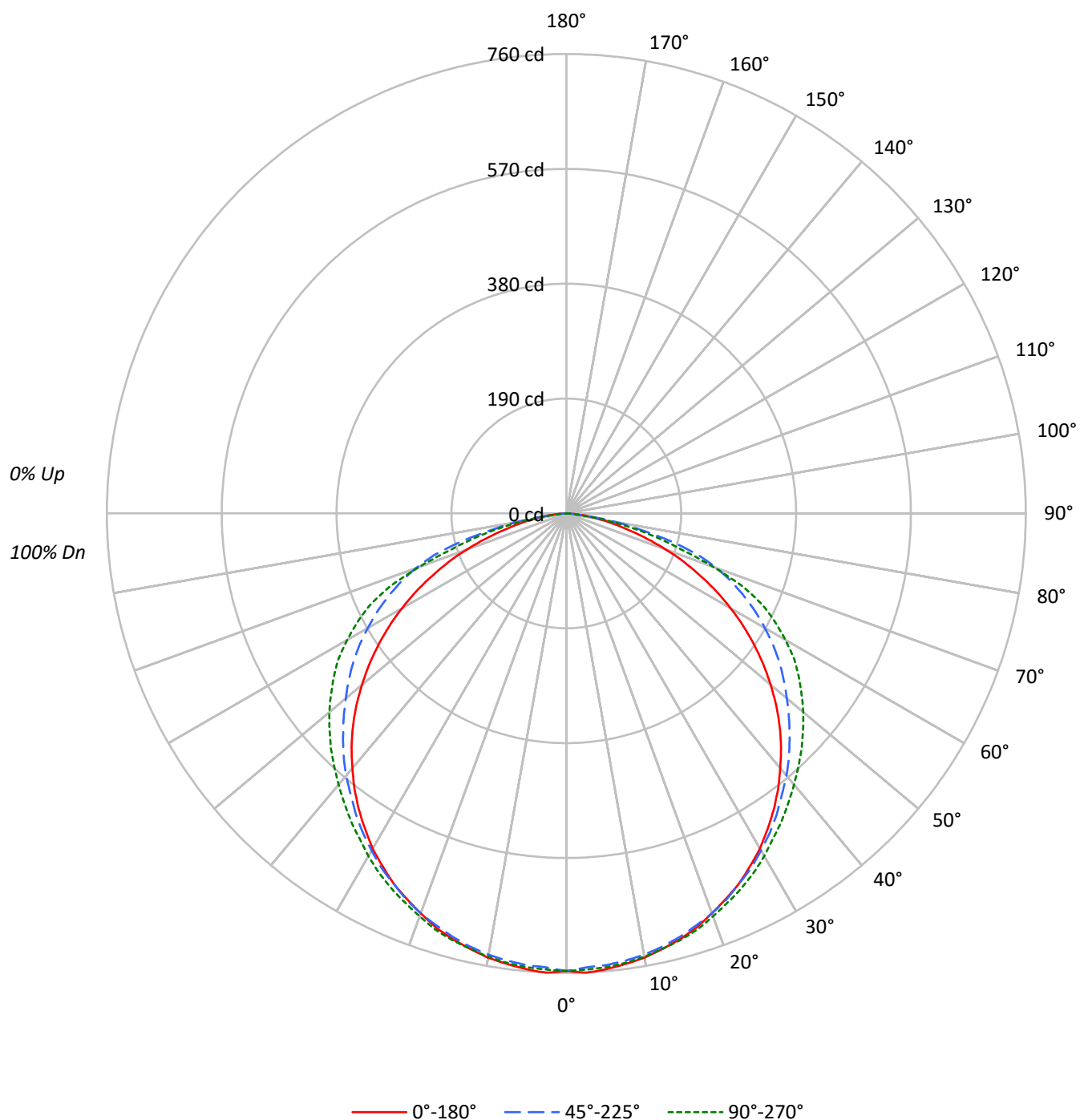
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2037	2037	2037
5°	2045	2026	2035
10°	2039	2025	2035
15°	2030	2020	2035
20°	2016	2016	2031
25°	2007	2007	2033
30°	1990	2001	2034
35°	1965	1994	2040
40°	1934	1990	2058
45°	1900	1988	2095
50°	1847	1994	2142
55°	1780	2020	2202
60°	1690	2041	2251
65°	1562	2067	2281
70°	1388	2083	2041
75°	1119	1871	1632
80°	876	1313	1066
85°	599	383	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.2
10°-20°	205.6	9.1
20°-30°	313.0	13.8
30°-40°	381.2	16.9
40°-50°	404.5	17.9
50°-60°	381.7	16.9
60°-70°	308.2	13.6
70°-80°	167.2	7.4
80°-90°	27.1	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°	590.2	26.1
0°-40°	971.4	43.0
0°-60°	1757.6	77.8
0°-90°	2260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	757	755	750	755	753	72
15°	729	727	725	730	730	206
25°	676	674	676	683	685	311
35°	598	602	607	619	621	374
45°	499	506	522	542	550	385
55°	379	395	430	459	469	339
65°	245	275	325	351	358	243
75°	108	157	180	162	157	118
85°	19	21	12	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.9	756.9	756.9	756.9	756.9
2.5°	760.5	756.9	751.6	756.9	755.2
5°	756.9	755.2	749.9	755.2	753.4
7.5°	751.6	751.6	746.3	749.9	749.9
10°	746.3	744.6	741.1	746.3	744.6
12.5°	737.5	735.8	734.0	739.3	737.5
15°	728.7	726.9	725.2	730.5	730.5
17.5°	718.1	716.4	714.6	721.6	721.6
20°	704.0	704.0	704.0	711.1	709.3
22.5°	689.9	689.9	691.6	698.7	696.9
25°	675.8	674.0	675.8	682.8	684.6
27.5°	658.1	659.9	661.7	668.7	670.5
30°	640.5	642.2	644.0	652.8	654.6
32.5°	619.3	622.8	626.4	637.0	637.0
35°	598.1	601.7	607.0	619.3	621.1
37.5°	575.2	578.7	585.8	599.9	603.4
40°	550.5	555.8	566.4	580.5	585.8
42.5°	525.8	532.9	545.2	561.1	568.1
45°	499.3	506.4	522.3	541.7	550.5
47.5°	471.1	479.9	499.3	524.0	531.1
50°	441.1	453.5	476.4	502.9	511.7
52.5°	411.1	425.2	453.5	481.7	490.5
55°	379.3	395.2	430.5	458.7	469.3
57.5°	347.6	365.2	405.8	435.8	446.4
60°	314.1	335.2	379.3	409.3	418.2
62.5°	280.5	305.2	352.9	382.9	389.9
65°	245.3	275.2	324.7	351.1	358.2
67.5°	211.7	247.0	296.4	315.8	315.8
70°	176.4	215.3	264.7	270.0	259.4
72.5°	141.2	185.3	229.4	210.0	201.1
75°	107.6	157.0	180.0	162.3	157.0
77.5°	81.2	127.0	127.0	116.5	112.9
80°	56.5	97.0	84.7	74.1	68.8
82.5°	37.1	54.7	44.1	35.3	30.0
85°	19.4	21.2	12.4	10.6	8.8
87.5°	7.1	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)