

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: P307392

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA08-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: P307392
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-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.08" ACRYLIC 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: 2254.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

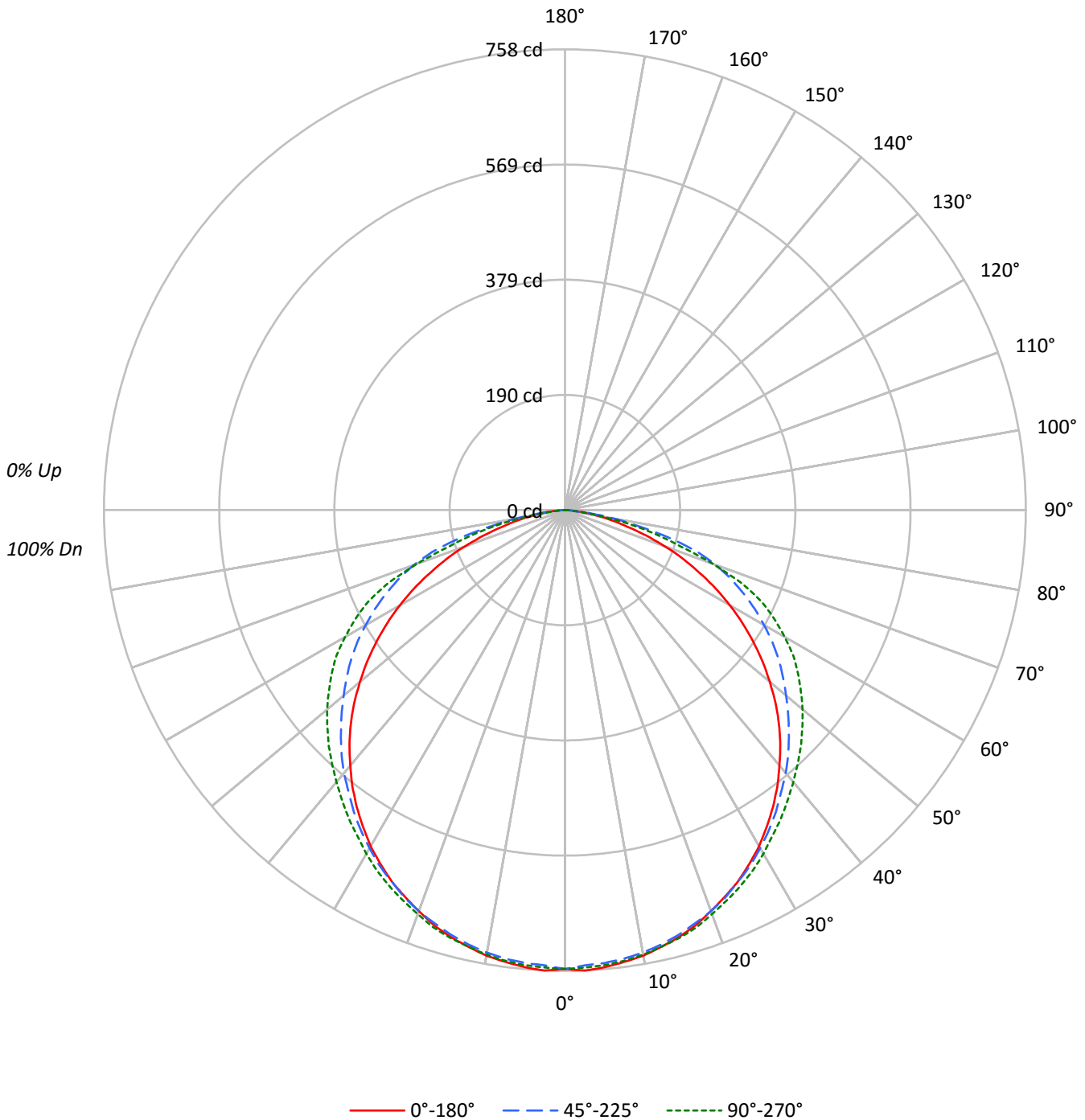
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2031	2031	2031
5°	2039	2020	2030
10°	2034	2020	2029
15°	2025	2015	2030
20°	2011	2011	2026
25°	2001	2001	2027
30°	1985	1996	2029
35°	1960	1988	2035
40°	1929	1984	2052
45°	1895	1982	2089
50°	1842	1989	2136
55°	1775	2015	2196
60°	1686	2036	2245
65°	1557	2062	2274
70°	1385	2077	2035
75°	1116	1866	1628
80°	872	1309	1063
85°	599	380	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.2
10°-20°	205.0	9.1
20°-30°	312.2	13.8
30°-40°	380.2	16.9
40°-50°	403.4	17.9
50°-60°	380.7	16.9
60°-70°	307.4	13.6
70°-80°	166.7	7.4
80°-90°	27.0	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°	588.6	26.1
0°-40°	968.8	43.0
0°-60°	1752.9	77.8
0°-90°	2254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	755	753	748	753	751	72
15°	727	725	723	728	728	205
25°	674	672	674	681	683	310
35°	596	600	605	618	619	373
45°	498	505	521	540	549	383
55°	378	394	429	458	468	338
65°	245	274	324	350	357	242
75°	107	157	180	162	157	117
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°	754.9	754.9	754.9	754.9	754.9
2.5°	758.4	754.9	749.6	754.9	753.2
5°	754.9	753.2	747.9	753.2	751.4
7.5°	749.6	749.6	744.4	747.9	747.9
10°	744.4	742.6	739.1	744.4	742.6
12.5°	735.6	733.8	732.0	737.3	735.6
15°	726.8	725.0	723.2	728.5	728.5
17.5°	716.2	714.4	712.7	719.7	719.7
20°	702.1	702.1	702.1	709.2	707.4
22.5°	688.1	688.1	689.8	696.9	695.1
25°	674.0	672.2	674.0	681.0	682.8
27.5°	656.4	658.1	659.9	666.9	668.7
30°	638.8	640.5	642.3	651.1	652.9
32.5°	617.7	621.2	624.7	635.3	635.3
35°	596.5	600.1	605.3	617.7	619.4
37.5°	573.7	577.2	584.2	598.3	601.8
40°	549.0	554.3	564.9	578.9	584.2
42.5°	524.4	531.4	543.8	559.6	566.6
45°	498.0	505.0	520.9	540.2	549.0
47.5°	469.8	478.6	498.0	522.6	529.7
50°	439.9	452.2	475.1	501.5	510.3
52.5°	410.0	424.1	452.2	480.4	489.2
55°	378.3	394.2	429.4	457.5	468.1
57.5°	346.7	364.3	404.7	434.7	445.2
60°	313.2	334.3	378.3	408.3	417.1
62.5°	279.8	304.4	351.9	381.9	388.9
65°	244.6	274.5	323.8	350.2	357.2
67.5°	211.2	246.4	295.6	315.0	315.0
70°	176.0	214.7	264.0	269.2	258.7
72.5°	140.8	184.8	228.8	209.4	200.6
75°	107.3	156.6	179.5	161.9	156.6
77.5°	80.9	126.7	126.7	116.1	112.6
80°	56.3	96.8	84.5	73.9	68.6
82.5°	37.0	54.6	44.0	35.2	29.9
85°	19.4	21.1	12.3	10.6	8.8
87.5°	7.0	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)