

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: P307411

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP125-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: P307411
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-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 2208.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

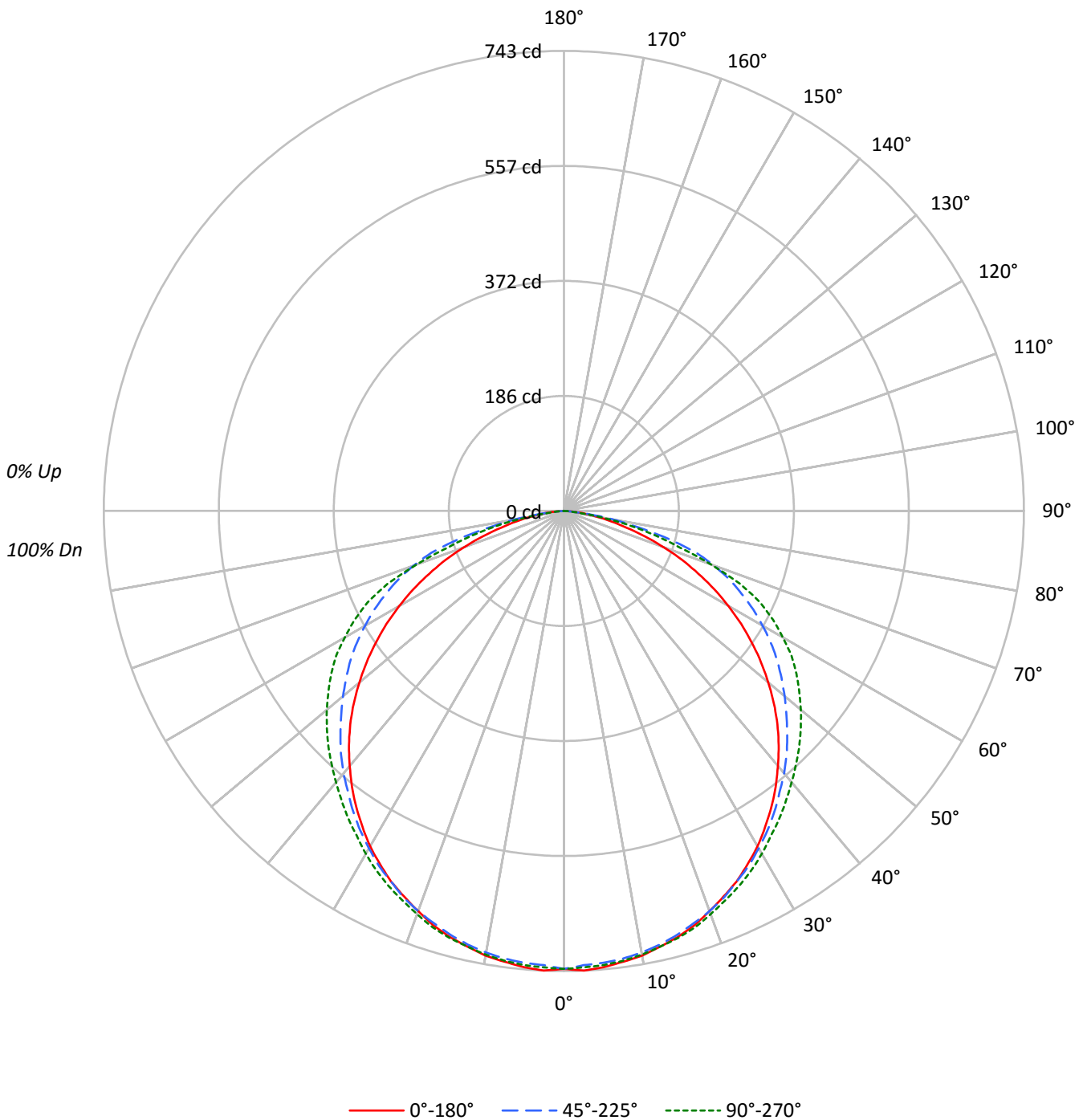
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1990	1990	1990
5°	1998	1979	1988
10°	1993	1978	1988
15°	1983	1974	1988
20°	1970	1970	1985
25°	1960	1960	1986
30°	1944	1955	1987
35°	1920	1948	1993
40°	1889	1944	2010
45°	1856	1942	2047
50°	1804	1948	2093
55°	1739	1973	2151
60°	1651	1995	2199
65°	1526	2020	2228
70°	1356	2035	1994
75°	1094	1828	1595
80°	855	1282	1041
85°	587	374	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.2
10°-20°	200.8	9.1
20°-30°	305.8	13.8
30°-40°	372.4	16.9
40°-50°	395.1	17.9
50°-60°	372.9	16.9
60°-70°	301.1	13.6
70°-80°	163.3	7.4
80°-90°	26.4	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°	576.6	26.1
0°-40°	949.0	43.0
0°-60°	1717.1	77.8
0°-90°	2208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	740	738	733	738	736	70
15°	712	710	708	714	714	201
25°	660	658	660	667	669	304
35°	584	588	593	605	607	365
45°	488	495	510	529	538	376
55°	371	386	421	448	458	331
65°	240	269	317	343	350	237
75°	105	153	176	159	153	115
85°	19	21	12	10	9	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.5	739.5	739.5	739.5	739.5
2.5°	743.0	739.5	734.3	739.5	737.8
5°	739.5	737.8	732.6	737.8	736.1
7.5°	734.3	734.3	729.2	732.6	732.6
10°	729.2	727.4	724.0	729.2	727.4
12.5°	720.6	718.8	717.1	722.3	720.6
15°	711.9	710.2	708.5	713.7	713.7
17.5°	701.6	699.9	698.1	705.0	705.0
20°	687.8	687.8	687.8	694.7	693.0
22.5°	674.0	674.0	675.7	682.6	680.9
25°	660.2	658.5	660.2	667.1	668.8
27.5°	643.0	644.7	646.4	653.3	655.0
30°	625.7	627.5	629.2	637.8	639.5
32.5°	605.1	608.5	612.0	622.3	622.3
35°	584.4	587.8	593.0	605.1	606.8
37.5°	562.0	565.4	572.3	586.1	589.5
40°	537.8	543.0	553.3	567.1	572.3
42.5°	513.7	520.6	532.7	548.2	555.1
45°	487.8	494.7	510.2	529.2	537.8
47.5°	460.3	468.9	487.8	512.0	518.9
50°	431.0	443.0	465.4	491.3	499.9
52.5°	401.6	415.4	443.0	470.6	479.2
55°	370.6	386.1	420.6	448.2	458.5
57.5°	339.6	356.8	396.5	425.8	436.1
60°	306.8	327.5	370.6	399.9	408.5
62.5°	274.1	298.2	344.8	374.1	381.0
65°	239.6	268.9	317.2	343.0	349.9
67.5°	206.9	241.3	289.6	308.6	308.6
70°	172.4	210.3	258.6	263.7	253.4
72.5°	137.9	181.0	224.1	205.1	196.5
75°	105.2	153.4	175.8	158.6	153.4
77.5°	79.3	124.1	124.1	113.8	110.3
80°	55.2	94.8	82.7	72.4	67.2
82.5°	36.2	53.4	43.1	34.5	29.3
85°	19.0	20.7	12.1	10.3	8.6
87.5°	6.9	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)