

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: P307096

Luminaire Tested: **14FCZ2-29-UNV-L82765-HRP-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: P307096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-UNV-L82765-HRP-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 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: 2170.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

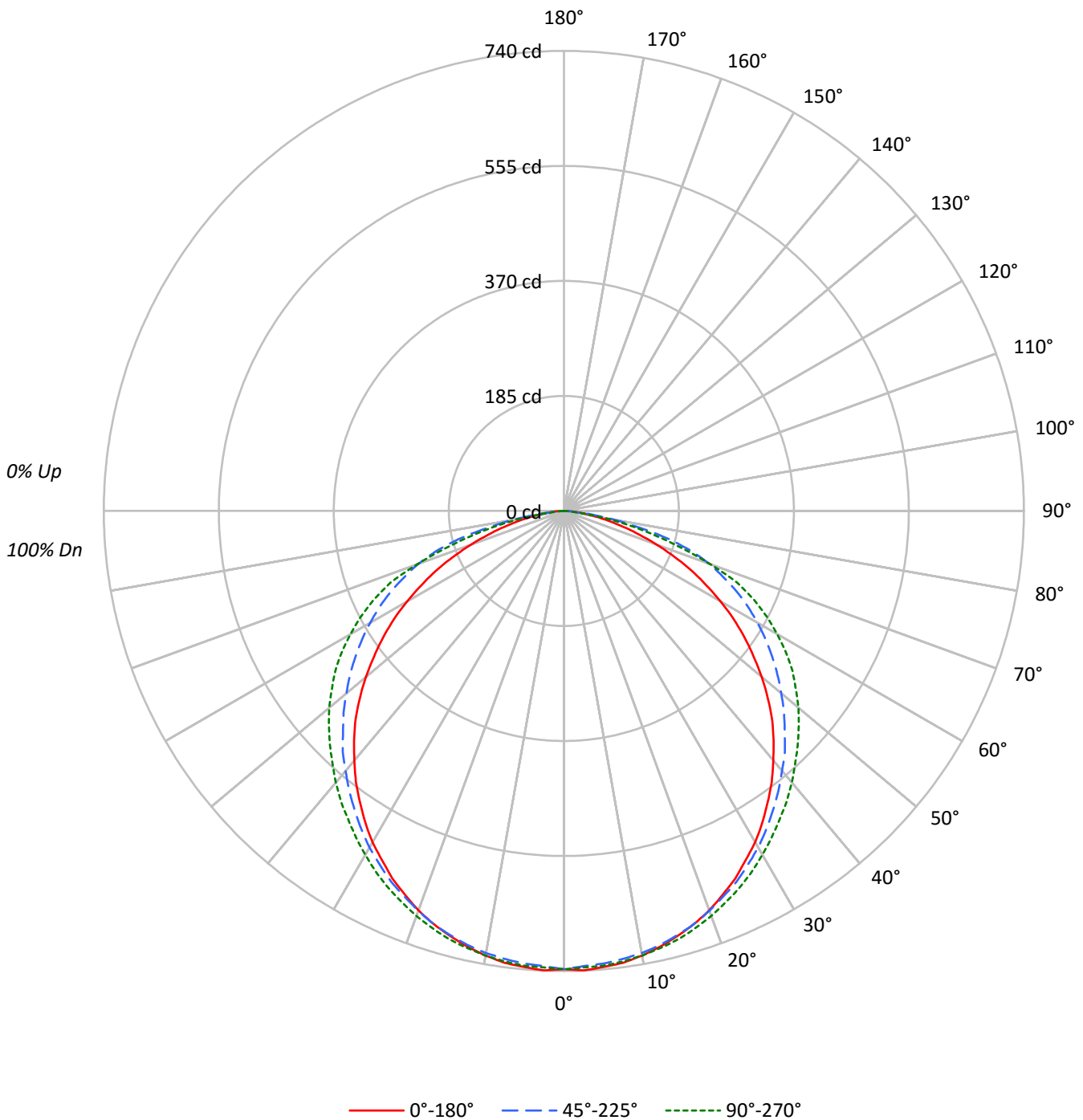
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1983	1983	1983
5°	1989	1974	1983
10°	1984	1973	1984
15°	1971	1967	1987
20°	1958	1960	1985
25°	1937	1953	1985
30°	1913	1942	1985
35°	1878	1928	1988
40°	1841	1918	2004
45°	1802	1911	2025
50°	1740	1911	2063
55°	1665	1921	2107
60°	1565	1935	2133
65°	1442	1955	2146
70°	1257	1960	1976
75°	1036	1824	1596
80°	814	1311	1068
85°	633	506	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.2
10°-20°	200.2	9.2
20°-30°	304.0	14.0
30°-40°	368.4	17.0
40°-50°	388.2	17.9
50°-60°	362.4	16.7
60°-70°	289.6	13.3
70°-80°	159.4	7.3
80°-90°	28.1	1.3
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°	574.0	26.5
0°-40°	942.3	43.4
0°-60°	1692.9	78.0
0°-90°	2170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	736	734	731	736	734	70
15°	708	708	706	713	713	200
25°	652	654	658	667	669	300
35°	572	577	587	602	605	358
45°	474	482	502	525	532	364
55°	355	373	409	438	449	317
65°	226	255	307	332	337	223
75°	100	143	175	158	154	107
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.9	736.9	736.9	736.9	736.9
2.5°	739.7	737.6	732.8	736.9	734.9
5°	736.3	734.2	730.8	735.6	734.2
7.5°	732.8	730.1	726.7	732.2	730.8
10°	726.0	724.0	721.9	726.7	726.0
12.5°	717.8	717.2	715.1	720.6	719.9
15°	707.6	707.6	706.2	713.1	713.1
17.5°	696.7	696.0	696.7	704.2	703.5
20°	683.7	683.7	684.4	693.3	693.3
22.5°	668.0	668.7	670.8	681.7	681.0
25°	652.3	653.7	657.8	667.3	668.7
27.5°	633.2	636.6	641.4	653.0	654.4
30°	615.5	617.5	625.0	636.0	638.7
32.5°	594.3	598.4	606.6	618.9	622.3
35°	571.8	577.3	586.8	601.8	605.2
37.5°	549.3	554.1	567.0	582.7	588.9
40°	524.0	532.2	545.9	563.6	570.4
42.5°	499.5	507.7	526.1	544.5	550.7
45°	473.6	482.4	502.2	524.7	532.2
47.5°	444.9	455.1	480.4	504.3	512.4
50°	415.6	428.5	456.5	483.1	492.7
52.5°	384.8	401.2	433.3	461.3	470.1
55°	354.8	372.6	409.4	438.1	449.0
57.5°	324.1	343.2	384.8	417.6	423.7
60°	290.7	313.9	359.6	388.3	396.4
62.5°	257.9	284.5	333.7	361.0	367.8
65°	226.5	255.2	307.1	332.3	337.1
67.5°	192.4	226.5	277.7	300.9	302.3
70°	159.7	199.2	249.1	260.0	251.1
72.5°	127.6	169.9	215.6	206.8	199.2
75°	99.6	142.6	175.4	157.6	153.5
77.5°	73.7	116.7	125.6	116.0	108.5
80°	52.5	92.1	84.6	72.3	68.9
82.5°	36.2	58.0	46.4	36.2	31.4
85°	20.5	25.9	16.4	10.2	8.2
87.5°	8.9	6.1	3.4	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)