

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: P307093

Luminaire Tested: **14FCZ2-29-UNV-L82765-HRP-CP125-W2A-U-5000K**

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: P307093
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-5000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2138.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

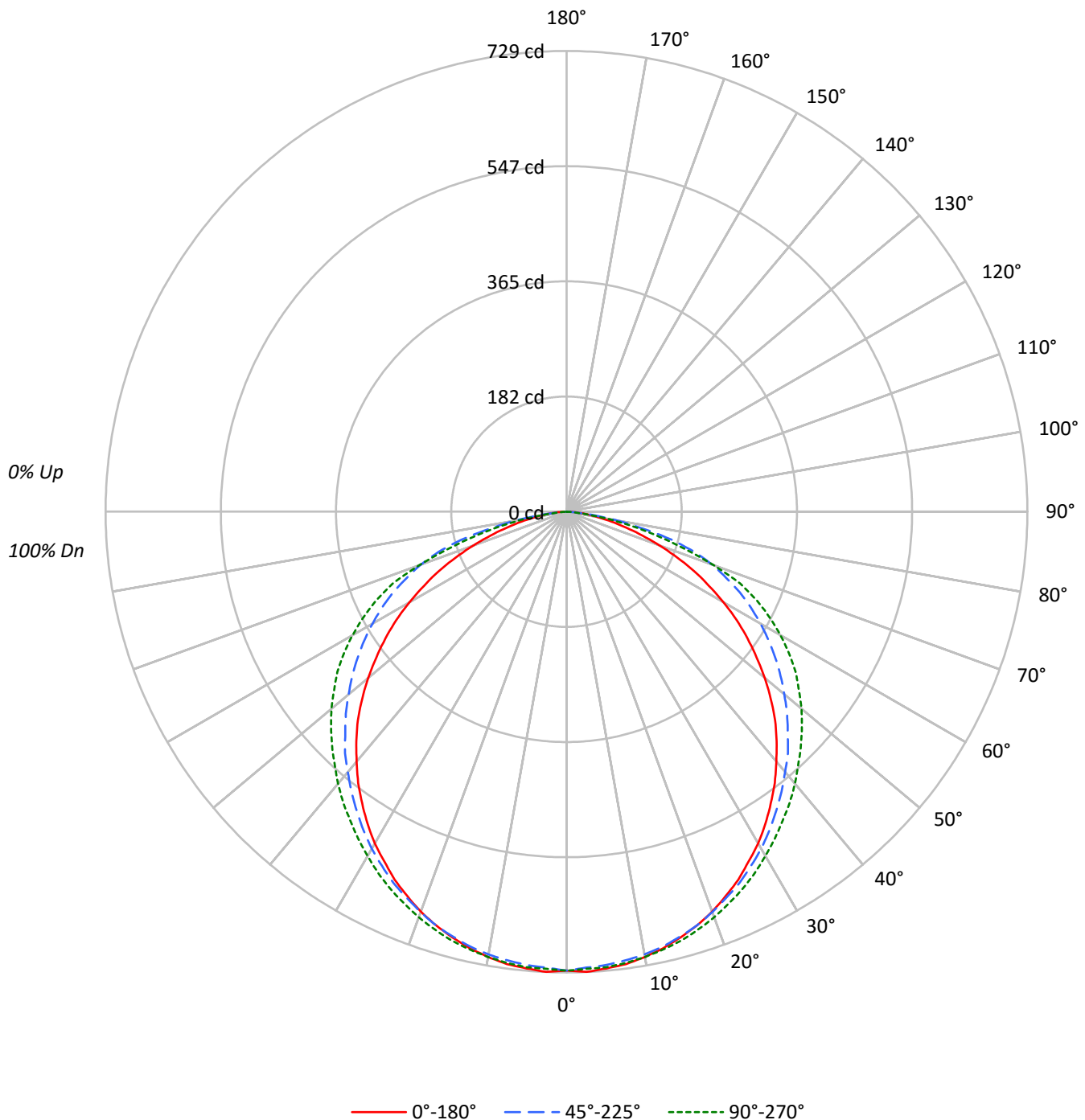
Input Watts (W): 24.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1954	1954	1954
5°	1959	1945	1954
10°	1955	1944	1955
15°	1942	1938	1957
20°	1929	1931	1956
25°	1908	1924	1956
30°	1884	1913	1955
35°	1851	1899	1959
40°	1814	1889	1974
45°	1776	1883	1996
50°	1714	1883	2032
55°	1640	1893	2076
60°	1541	1907	2102
65°	1421	1926	2115
70°	1238	1931	1947
75°	1021	1797	1573
80°	803	1292	1052
85°	624	497	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.2
10°-20°	197.2	9.2
20°-30°	299.5	14.0
30°-40°	362.9	17.0
40°-50°	382.4	17.9
50°-60°	357.1	16.7
60°-70°	285.3	13.3
70°-80°	157.0	7.3
80°-90°	27.7	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°	565.5	26.5
0°-40°	928.5	43.4
0°-60°	1667.9	78.0
0°-90°	2138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	725	723	720	725	723	69
15°	697	697	696	702	702	197
25°	643	644	648	658	659	296
35°	563	569	578	593	596	353
45°	467	475	495	517	524	359
55°	350	367	403	432	442	312
65°	223	251	302	327	332	220
75°	98	140	173	155	151	106
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°	726.1	726.1	726.1	726.1	726.1
2.5°	728.8	726.7	722.0	726.1	724.1
5°	725.4	723.4	720.0	724.7	723.4
7.5°	722.0	719.4	716.0	721.4	720.0
10°	715.3	713.3	711.3	716.0	715.3
12.5°	707.3	706.6	704.6	709.9	709.3
15°	697.2	697.2	695.8	702.5	702.5
17.5°	686.4	685.7	686.4	693.8	693.1
20°	673.6	673.6	674.3	683.0	683.0
22.5°	658.2	658.8	660.9	671.6	670.9
25°	642.7	644.1	648.1	657.5	658.8
27.5°	623.9	627.2	632.0	643.4	644.7
30°	606.4	608.4	615.8	626.6	629.3
32.5°	585.6	589.6	597.7	609.8	613.1
35°	563.4	568.8	578.2	593.0	596.3
37.5°	541.2	545.9	558.7	574.1	580.2
40°	516.3	524.4	537.8	555.3	562.0
42.5°	492.1	500.2	518.3	536.5	542.5
45°	466.6	475.3	494.8	517.0	524.4
47.5°	438.3	448.4	473.3	496.8	504.9
50°	409.4	422.2	449.8	476.0	485.4
52.5°	379.2	395.3	426.9	454.5	463.2
55°	349.6	367.1	403.4	431.6	442.4
57.5°	319.3	338.2	379.2	411.4	417.5
60°	286.4	309.3	354.3	382.5	390.6
62.5°	254.1	280.3	328.8	355.6	362.4
65°	223.2	251.4	302.5	327.4	332.1
67.5°	189.6	223.2	273.6	296.5	297.8
70°	157.3	196.3	245.4	256.1	247.4
72.5°	125.7	167.4	212.4	203.7	196.3
75°	98.2	140.5	172.8	155.3	151.3
77.5°	72.6	115.0	123.7	114.3	106.9
80°	51.8	90.8	83.4	71.3	67.9
82.5°	35.6	57.1	45.7	35.6	30.9
85°	20.2	25.5	16.1	10.1	8.1
87.5°	8.7	6.1	3.4	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)