

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: P307807

Luminaire Tested: **14FCZ2-20-UNV-L82765-S-CA125-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: P307807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-UNV-L82765-S-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 2114.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

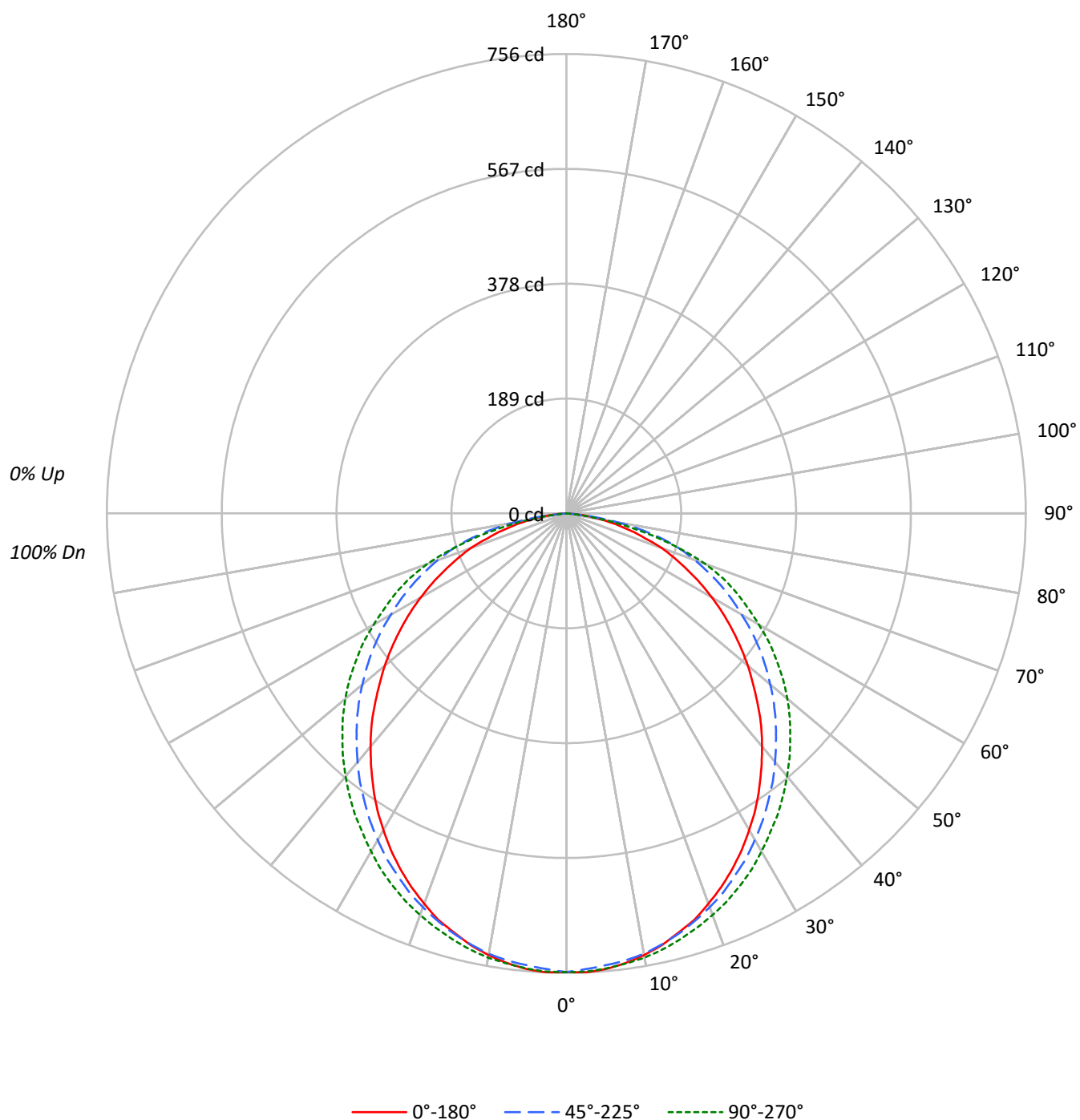
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2031	2031	2031
5°	2033	2016	2030
10°	2016	2011	2028
15°	1989	1994	2021
20°	1957	1975	2014
25°	1917	1951	2007
30°	1869	1928	1996
35°	1818	1901	1990
40°	1760	1878	1984
45°	1695	1855	1982
50°	1632	1834	1988
55°	1564	1819	1982
60°	1489	1794	1969
65°	1401	1789	1969
70°	1319	1773	1913
75°	1145	1733	1634
80°	925	1396	1088
85°	614	485	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.4
10°-20°	202.8	9.6
20°-30°	304.2	14.4
30°-40°	362.9	17.2
40°-50°	375.1	17.7
50°-60°	342.5	16.2
60°-70°	269.5	12.7
70°-80°	156.9	7.4
80°-90°	28.9	1.4
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°	578.2	27.4
0°-40°	941.1	44.5
0°-60°	1658.7	78.5
0°-90°	2114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	753	750	746	753	752	71
15°	714	715	716	725	725	201
25°	646	649	657	673	676	297
35°	553	561	579	601	606	346
45°	446	460	487	515	521	344
55°	333	351	388	416	422	298
65°	220	243	281	303	309	219
75°	110	136	167	164	157	117
85°	20	28	16	13	10	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.7	754.7	754.7	754.7	754.7
2.5°	755.7	753.6	750.5	755.7	754.7
5°	752.6	750.5	746.3	752.6	751.5
7.5°	746.3	744.2	742.1	748.4	747.3
10°	737.9	736.8	735.8	743.1	742.1
12.5°	727.4	727.4	726.4	734.7	734.7
15°	713.8	714.8	715.9	725.3	725.3
17.5°	701.2	700.2	703.3	713.8	714.8
20°	683.4	685.5	689.7	702.3	703.3
22.5°	665.6	667.7	675.0	687.6	690.7
25°	645.7	648.8	657.2	672.9	676.1
27.5°	624.7	628.9	640.4	657.2	660.3
30°	601.6	607.9	620.5	639.4	642.5
32.5°	578.6	584.9	600.6	619.5	623.6
35°	553.4	560.8	578.6	600.6	605.8
37.5°	527.2	536.6	557.6	579.6	585.9
40°	501.0	511.5	534.6	557.6	564.9
42.5°	474.8	485.3	510.4	536.6	544.0
45°	445.5	460.1	487.4	514.6	520.9
47.5°	417.2	432.9	463.3	490.5	498.9
50°	389.9	405.6	438.1	466.4	474.8
52.5°	361.6	378.4	413.0	442.3	449.7
55°	333.3	351.1	387.8	416.1	422.4
57.5°	305.0	323.9	361.6	388.9	396.2
60°	276.7	296.6	333.3	360.6	365.8
62.5°	248.4	269.4	307.1	331.2	336.5
65°	220.1	243.2	280.9	302.9	309.2
67.5°	192.9	215.9	252.6	273.6	278.8
70°	167.7	188.7	225.4	241.1	243.2
72.5°	136.3	162.5	198.1	206.5	201.2
75°	110.1	136.3	166.7	163.5	157.2
77.5°	83.9	110.1	130.0	119.5	111.1
80°	59.7	85.9	90.1	74.4	70.2
82.5°	38.8	59.7	50.3	38.8	31.4
85°	19.9	28.3	15.7	12.6	10.5
87.5°	6.3	4.2	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)