

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: P307806

Luminaire Tested: **14FCZ2-20-UNV-L82765-S-CA125-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: P307806
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-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 2109.0 lumens
Efficiency: N/A
Efficacy: 124.1 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

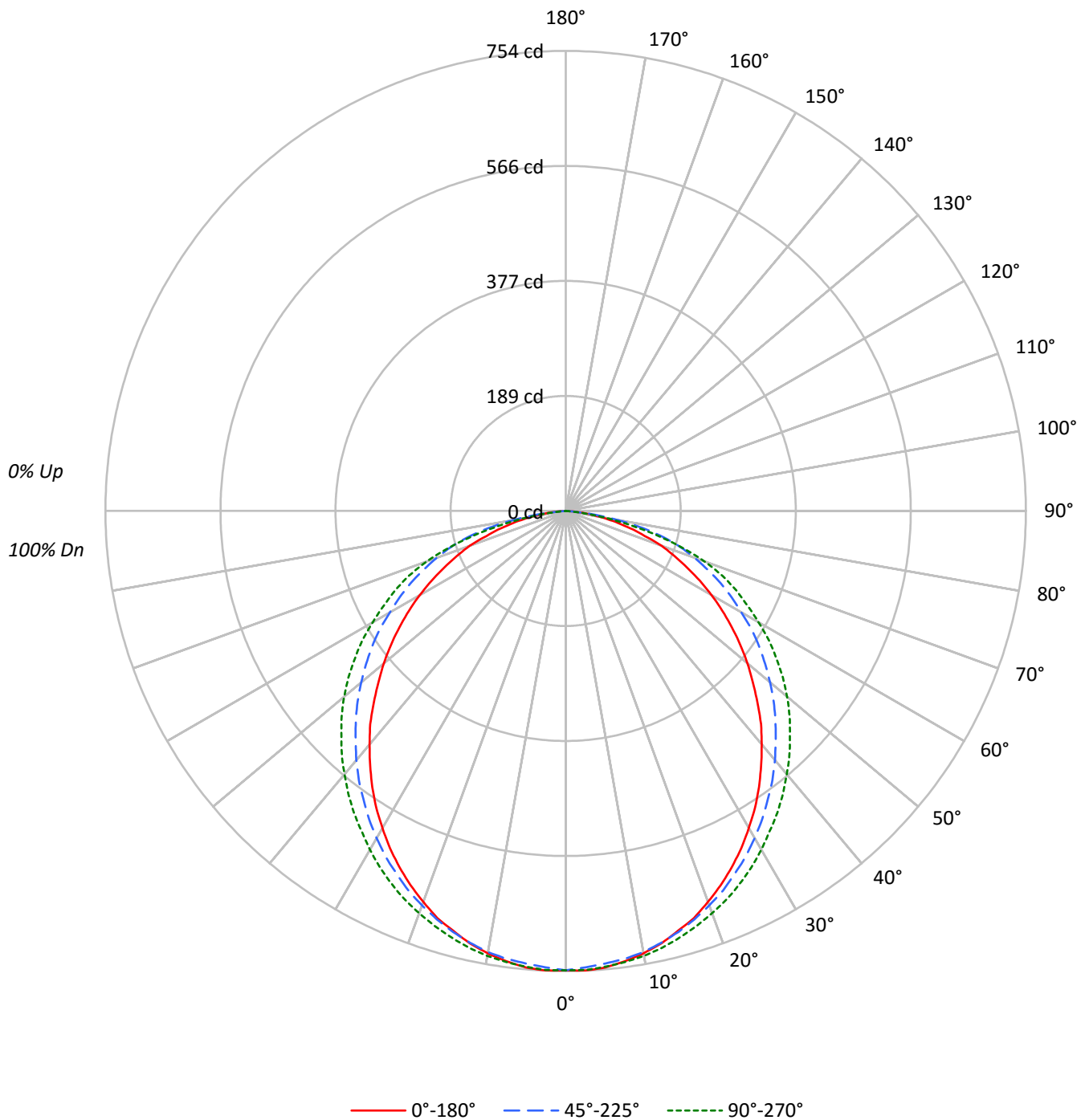
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2026	2026	2026
5°	2028	2011	2025
10°	2011	2006	2023
15°	1984	1990	2016
20°	1952	1970	2009
25°	1912	1947	2003
30°	1865	1923	1992
35°	1814	1896	1986
40°	1756	1873	1980
45°	1691	1850	1978
50°	1629	1830	1983
55°	1560	1815	1977
60°	1486	1790	1964
65°	1398	1784	1964
70°	1316	1769	1909
75°	1142	1729	1630
80°	924	1393	1086
85°	614	485	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.4
10°-20°	202.3	9.6
20°-30°	303.5	14.4
30°-40°	362.0	17.2
40°-50°	374.2	17.7
50°-60°	341.7	16.2
60°-70°	268.9	12.7
70°-80°	156.5	7.4
80°-90°	28.8	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°	576.9	27.4
0°-40°	938.9	44.5
0°-60°	1654.8	78.5
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	751	749	744	751	750	71
15°	712	713	714	724	724	201
25°	644	647	656	671	674	297
35°	552	559	577	599	604	345
45°	444	459	486	513	520	343
55°	332	350	387	415	421	297
65°	220	243	280	302	308	218
75°	110	136	166	163	157	117
85°	20	28	16	12	10	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.9	752.9	752.9	752.9	752.9
2.5°	753.9	751.8	748.7	753.9	752.9
5°	750.8	748.7	744.5	750.8	749.7
7.5°	744.5	742.4	740.3	746.6	745.6
10°	736.1	735.1	734.1	741.4	740.3
12.5°	725.7	725.7	724.6	733.0	733.0
15°	712.1	713.1	714.2	723.6	723.6
17.5°	699.5	698.5	701.6	712.1	713.1
20°	681.8	683.9	688.0	700.6	701.6
22.5°	664.0	666.1	673.4	686.0	689.1
25°	644.1	647.3	655.6	671.3	674.5
27.5°	623.2	627.4	638.9	655.6	658.8
30°	600.2	606.5	619.0	637.9	641.0
32.5°	577.2	583.5	599.2	618.0	622.2
35°	552.1	559.4	577.2	599.2	604.4
37.5°	526.0	535.4	556.3	578.3	584.5
40°	499.8	510.3	533.3	556.3	563.6
42.5°	473.7	484.1	509.2	535.4	542.7
45°	444.4	459.0	486.2	513.4	519.7
47.5°	416.2	431.9	462.2	489.4	497.7
50°	389.0	404.7	437.1	465.3	473.7
52.5°	360.8	377.5	412.0	441.3	448.6
55°	332.5	350.3	386.9	415.1	421.4
57.5°	304.3	323.1	360.8	387.9	395.3
60°	276.1	295.9	332.5	359.7	364.9
62.5°	247.8	268.7	306.4	330.4	335.7
65°	219.6	242.6	280.2	302.2	308.5
67.5°	192.4	215.4	252.0	272.9	278.1
70°	167.3	188.2	224.8	240.5	242.6
72.5°	135.9	162.1	197.6	206.0	200.8
75°	109.8	135.9	166.3	163.1	156.8
77.5°	83.7	109.8	129.7	119.2	110.8
80°	59.6	85.7	89.9	74.2	70.1
82.5°	38.7	59.6	50.2	38.7	31.4
85°	19.9	28.2	15.7	12.5	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)