

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: P307395

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA125-W2A-U-3000K**

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: P307395
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-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 3000K 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: 2034.0 lumens
Efficiency: N/A
Efficacy: 69.4 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

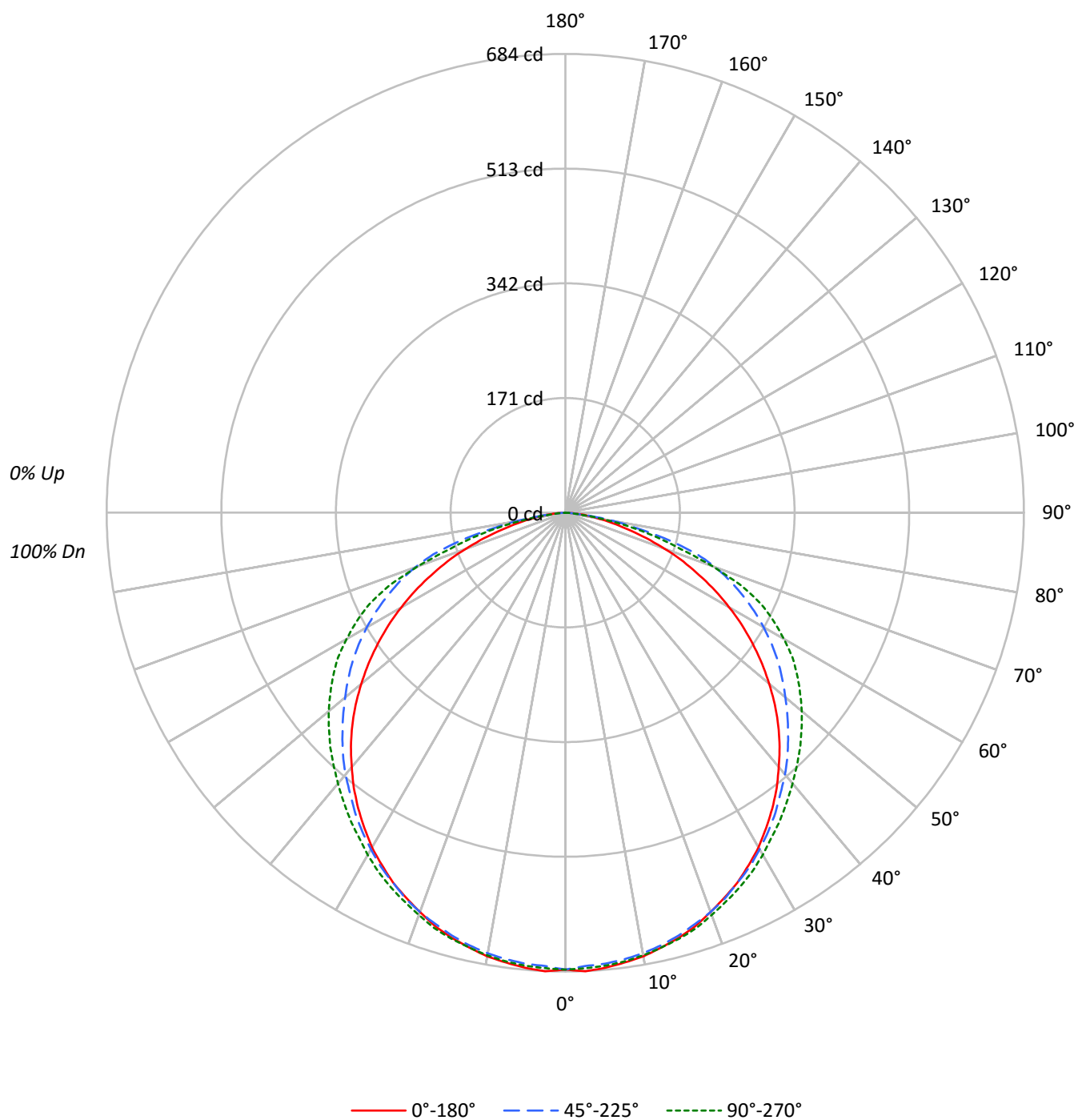
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1833	1833	1833
5°	1840	1823	1832
10°	1835	1822	1831
15°	1827	1818	1831
20°	1814	1814	1828
25°	1806	1806	1829
30°	1791	1801	1830
35°	1768	1795	1836
40°	1740	1790	1852
45°	1710	1789	1885
50°	1662	1795	1928
55°	1602	1818	1982
60°	1521	1837	2025
65°	1405	1861	2053
70°	1249	1874	1836
75°	1007	1684	1469
80°	787	1181	959
85°	540	343	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.2
10°-20°	185.0	9.1
20°-30°	281.7	13.8
30°-40°	343.1	16.9
40°-50°	364.0	17.9
50°-60°	343.5	16.9
60°-70°	277.4	13.6
70°-80°	150.5	7.4
80°-90°	24.4	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°	531.2	26.1
0°-40°	874.3	43.0
0°-60°	1581.8	77.8
0°-90°	2034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	681	680	675	680	678	65
15°	656	654	653	657	657	185
25°	608	607	608	614	616	280
35°	538	542	546	557	559	337
45°	449	456	470	488	495	346
55°	341	356	388	413	422	305
65°	221	248	292	316	322	219
75°	97	141	162	146	141	106
85°	18	19	11	10	8	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.2	681.2	681.2	681.2	681.2
2.5°	684.4	681.2	676.5	681.2	679.7
5°	681.2	679.7	674.9	679.7	678.1
7.5°	676.5	676.5	671.7	674.9	674.9
10°	671.7	670.1	666.9	671.7	670.1
12.5°	663.8	662.2	660.6	665.4	663.8
15°	655.8	654.2	652.7	657.4	657.4
17.5°	646.3	644.7	643.1	649.5	649.5
20°	633.6	633.6	633.6	640.0	638.4
22.5°	620.9	620.9	622.5	628.8	627.2
25°	608.2	606.6	608.2	614.5	616.1
27.5°	592.3	593.9	595.5	601.8	603.4
30°	576.4	578.0	579.6	587.5	589.1
32.5°	557.4	560.6	563.7	573.3	573.3
35°	538.3	541.5	546.3	557.4	559.0
37.5°	517.7	520.9	527.2	539.9	543.1
40°	495.4	500.2	509.7	522.4	527.2
42.5°	473.2	479.6	490.7	505.0	511.3
45°	449.4	455.7	470.0	487.5	495.4
47.5°	424.0	431.9	449.4	471.6	478.0
50°	397.0	408.1	428.8	452.6	460.5
52.5°	370.0	382.7	408.1	433.5	441.5
55°	341.4	355.7	387.5	412.9	422.4
57.5°	312.8	328.7	365.2	392.2	401.8
60°	282.7	301.7	341.4	368.4	376.3
62.5°	252.5	274.7	317.6	344.6	350.9
65°	220.7	247.7	292.2	316.0	322.4
67.5°	190.6	222.3	266.8	284.2	284.2
70°	158.8	193.7	238.2	243.0	233.4
72.5°	127.0	166.7	206.4	189.0	181.0
75°	96.9	141.3	162.0	146.1	141.3
77.5°	73.0	114.3	114.3	104.8	101.6
80°	50.8	87.3	76.2	66.7	61.9
82.5°	33.3	49.2	39.7	31.8	27.0
85°	17.5	19.1	11.1	9.5	7.9
87.5°	6.4	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)