

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: P307440

Luminaire Tested: **14FCZ2-39-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: P307440
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: 14FCZ2-39-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: 2244.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

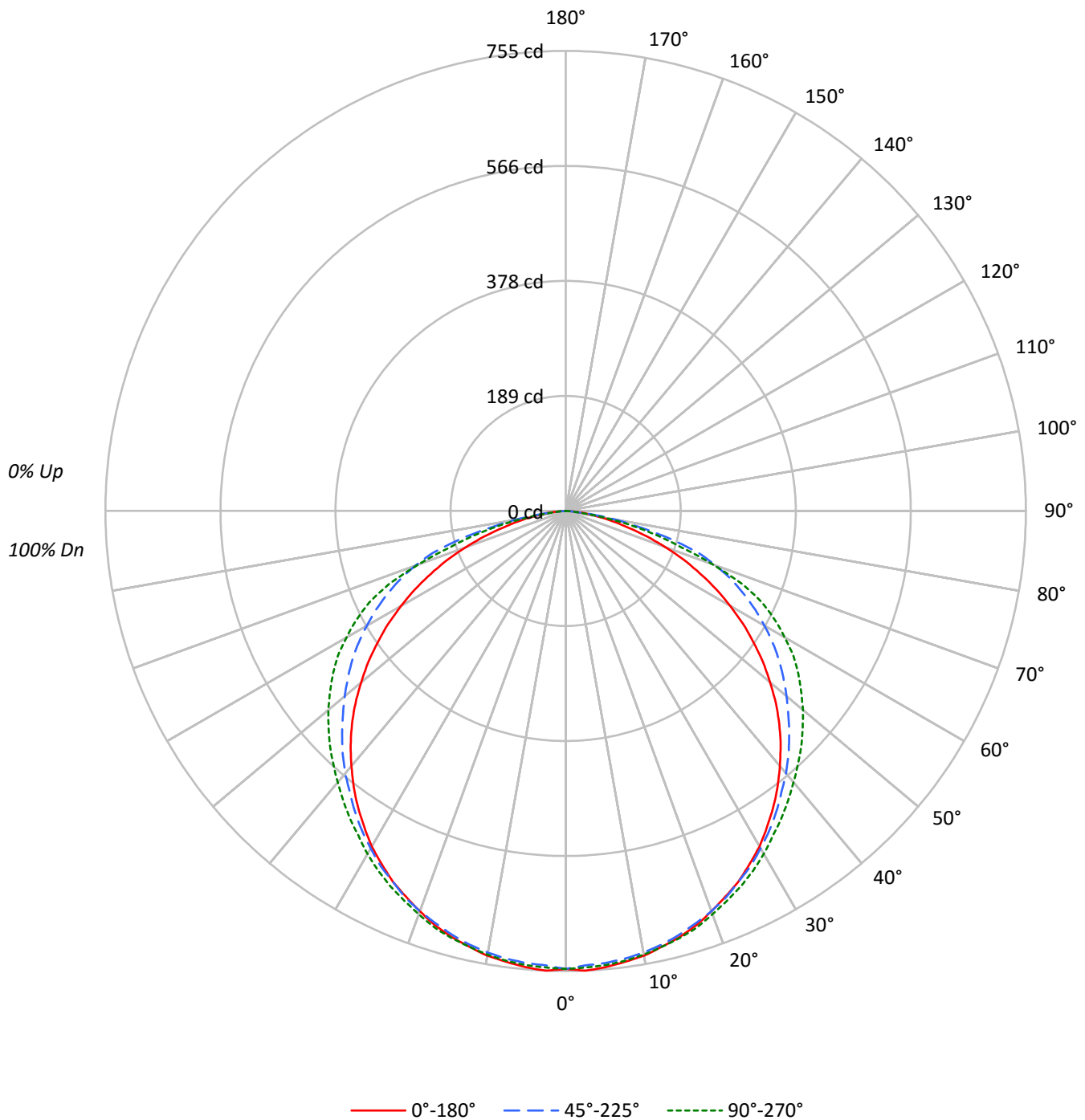
Input Watts (W): 33.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2030	2011	2021
10°	2025	2011	2020
15°	2016	2006	2021
20°	2002	2002	2017
25°	1992	1992	2018
30°	1976	1987	2020
35°	1951	1980	2026
40°	1920	1976	2043
45°	1887	1974	2080
50°	1834	1980	2127
55°	1767	2006	2186
60°	1678	2027	2235
65°	1550	2053	2264
70°	1378	2068	2026
75°	1111	1858	1621
80°	869	1303	1058
85°	596	380	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.2
10°-20°	204.1	9.1
20°-30°	310.8	13.8
30°-40°	378.5	16.9
40°-50°	401.6	17.9
50°-60°	379.0	16.9
60°-70°	306.0	13.6
70°-80°	166.0	7.4
80°-90°	26.9	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°	586.0	26.1
0°-40°	964.5	43.0
0°-60°	1745.1	77.8
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	752	750	745	750	748	71
15°	724	722	720	725	725	204
25°	671	669	671	678	680	309
35°	594	597	603	615	617	371
45°	496	503	519	538	547	382
55°	377	392	428	456	466	336
65°	244	273	322	349	356	241
75°	107	156	179	161	156	117
85°	19	21	12	10	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.6	751.6	751.6	751.6	751.6
2.5°	755.1	751.6	746.3	751.6	749.8
5°	751.6	749.8	744.6	749.8	748.1
7.5°	746.3	746.3	741.1	744.6	744.6
10°	741.1	739.3	735.8	741.1	739.3
12.5°	732.3	730.5	728.8	734.1	732.3
15°	723.5	721.8	720.0	725.3	725.3
17.5°	713.0	711.3	709.5	716.5	716.5
20°	699.0	699.0	699.0	706.0	704.3
22.5°	685.0	685.0	686.8	693.8	692.0
25°	671.0	669.2	671.0	678.0	679.7
27.5°	653.5	655.2	657.0	664.0	665.7
30°	635.9	637.7	639.5	648.2	650.0
32.5°	614.9	618.4	621.9	632.4	632.4
35°	593.9	597.4	602.7	614.9	616.7
37.5°	571.1	574.6	581.6	595.7	599.2
40°	546.6	551.9	562.4	576.4	581.6
42.5°	522.1	529.1	541.3	557.1	564.1
45°	495.8	502.8	518.6	537.8	546.6
47.5°	467.8	476.5	495.8	520.3	527.3
50°	438.0	450.2	473.0	499.3	508.1
52.5°	408.2	422.2	450.2	478.3	487.0
55°	376.7	392.4	427.5	455.5	466.0
57.5°	345.1	362.6	402.9	432.7	443.2
60°	311.8	332.9	376.7	406.4	415.2
62.5°	278.6	303.1	350.4	380.2	387.2
65°	243.5	273.3	322.4	348.6	355.6
67.5°	210.2	245.3	294.3	313.6	313.6
70°	175.2	213.7	262.8	268.0	257.5
72.5°	140.2	184.0	227.7	208.5	199.7
75°	106.9	155.9	178.7	161.2	155.9
77.5°	80.6	126.1	126.1	115.6	112.1
80°	56.1	96.4	84.1	73.6	68.3
82.5°	36.8	54.3	43.8	35.0	29.8
85°	19.3	21.0	12.3	10.5	8.8
87.5°	7.0	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)