

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: P307397

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA125-W2A-U-4000K**

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: P307397
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-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 4000K 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: 2151.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

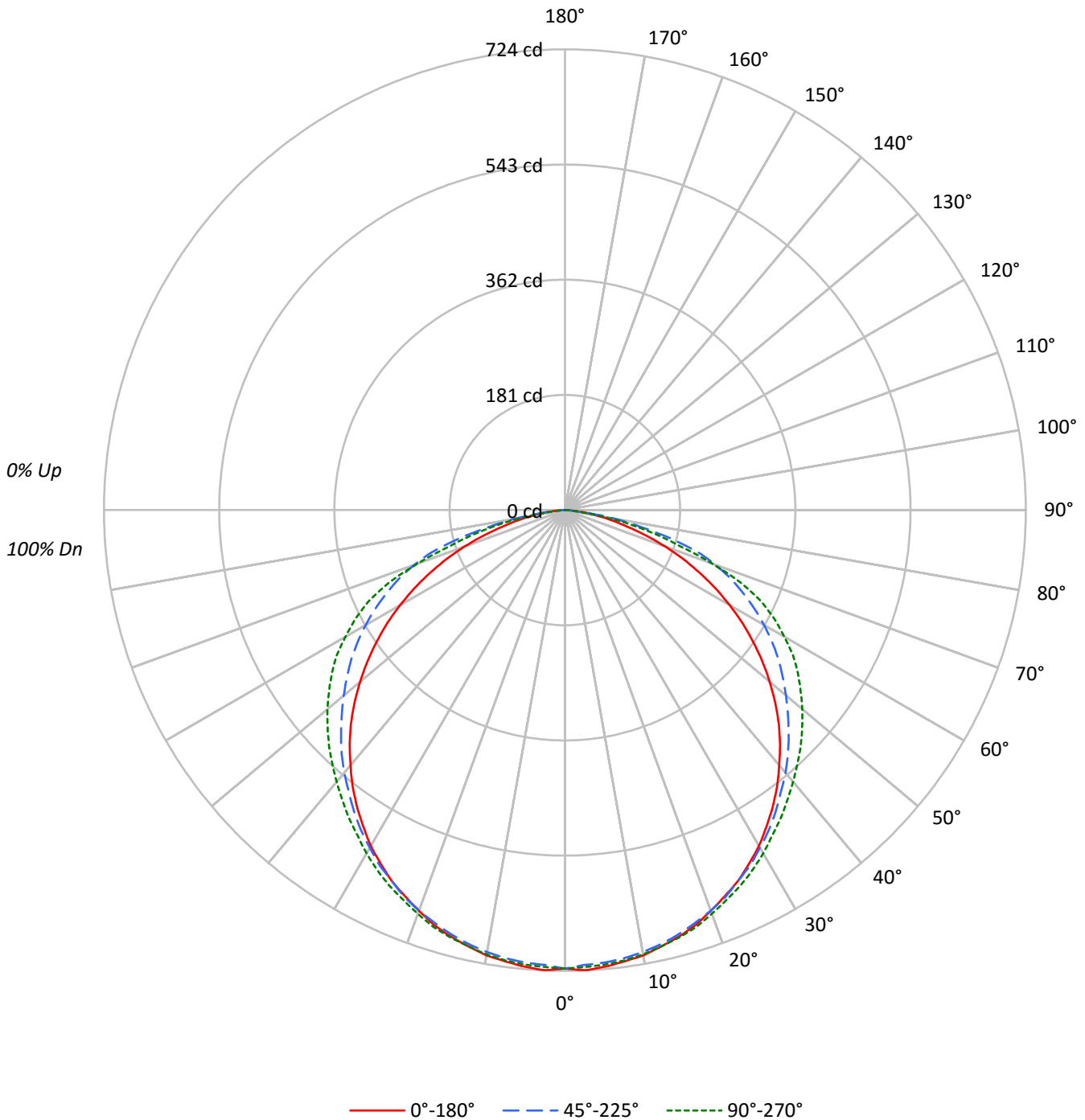
Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1939	1939	1939
5°	1946	1928	1937
10°	1941	1927	1937
15°	1932	1923	1937
20°	1919	1919	1933
25°	1910	1910	1935
30°	1894	1904	1936
35°	1870	1898	1942
40°	1840	1894	1958
45°	1808	1892	1994
50°	1757	1898	2039
55°	1694	1923	2096
60°	1609	1943	2142
65°	1486	1968	2171
70°	1321	1982	1943
75°	1065	1781	1554
80°	832	1249	1015
85°	571	364	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.2
10°-20°	195.6	9.1
20°-30°	297.9	13.8
30°-40°	362.8	16.9
40°-50°	384.9	17.9
50°-60°	363.3	16.9
60°-70°	293.3	13.6
70°-80°	159.1	7.4
80°-90°	25.8	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°	561.7	26.1
0°-40°	924.5	43.0
0°-60°	1672.8	77.8
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	720	719	714	719	717	68
15°	694	692	690	695	695	196
25°	643	642	643	650	652	296
35°	569	573	578	589	591	356
45°	475	482	497	516	524	366
55°	361	376	410	437	447	323
65°	233	262	309	334	341	231
75°	102	150	171	154	150	112
85°	18	20	12	10	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.4	720.4	720.4	720.4	720.4
2.5°	723.8	720.4	715.4	720.4	718.7
5°	720.4	718.7	713.7	718.7	717.1
7.5°	715.4	715.4	710.3	713.7	713.7
10°	710.3	708.7	705.3	710.3	708.7
12.5°	702.0	700.3	698.6	703.6	702.0
15°	693.6	691.9	690.2	695.2	695.2
17.5°	683.5	681.8	680.1	686.8	686.8
20°	670.0	670.0	670.0	676.8	675.1
22.5°	656.6	656.6	658.3	665.0	663.3
25°	643.2	641.5	643.2	649.9	651.6
27.5°	626.4	628.1	629.7	636.5	638.1
30°	609.6	611.3	612.9	621.3	623.0
32.5°	589.4	592.8	596.2	606.2	606.2
35°	569.3	572.6	577.7	589.4	591.1
37.5°	547.5	550.8	557.5	571.0	574.3
40°	523.9	529.0	539.1	552.5	557.5
42.5°	500.4	507.2	518.9	534.0	540.7
45°	475.2	482.0	497.1	515.5	523.9
47.5°	448.4	456.8	475.2	498.8	505.5
50°	419.8	431.6	453.4	478.6	487.0
52.5°	391.3	404.7	431.6	458.5	466.8
55°	361.1	376.2	409.8	436.6	446.7
57.5°	330.8	347.6	386.2	414.8	424.9
60°	298.9	319.1	361.1	389.6	398.0
62.5°	267.0	290.5	335.9	364.4	371.1
65°	233.4	262.0	309.0	334.2	340.9
67.5°	201.5	235.1	282.1	300.6	300.6
70°	167.9	204.9	251.9	256.9	246.9
72.5°	134.3	176.3	218.3	199.8	191.4
75°	102.4	149.5	171.3	154.5	149.5
77.5°	77.2	120.9	120.9	110.8	107.5
80°	53.7	92.4	80.6	70.5	65.5
82.5°	35.3	52.1	42.0	33.6	28.5
85°	18.5	20.2	11.8	10.1	8.4
87.5°	6.7	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)