

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: P307394

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CA125-W2A-U-2700K**

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: P307394
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-2700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 2700K 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: 1977.0 lumens
Efficiency: N/A
Efficacy: 67.0 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

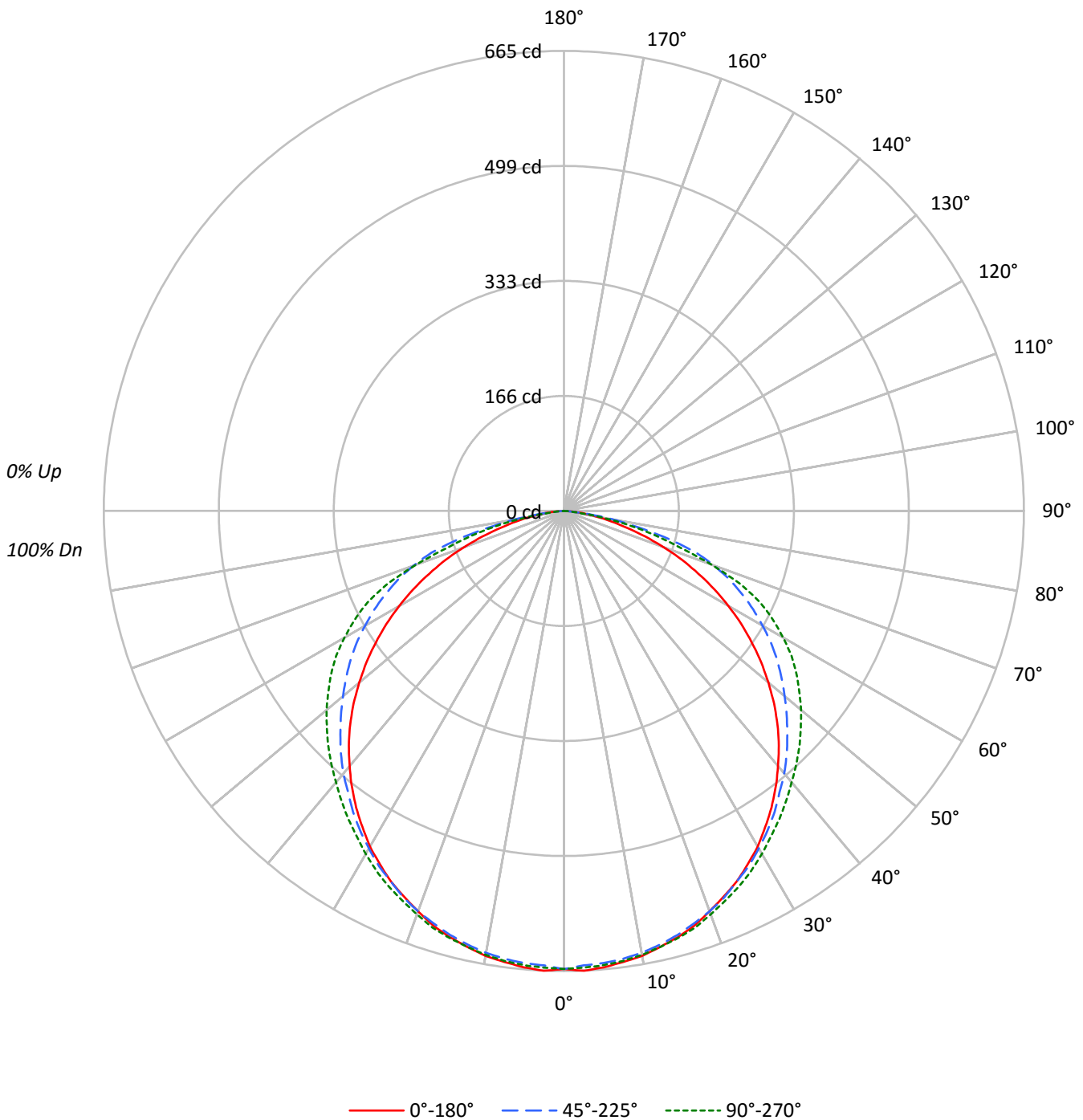
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1782	1782	1782
5°	1789	1772	1780
10°	1784	1771	1780
15°	1776	1767	1780
20°	1763	1763	1777
25°	1755	1755	1778
30°	1741	1751	1779
35°	1719	1744	1785
40°	1692	1741	1800
45°	1662	1739	1833
50°	1616	1744	1874
55°	1557	1767	1926
60°	1478	1786	1969
65°	1366	1808	1995
70°	1214	1821	1785
75°	979	1637	1429
80°	766	1148	933
85°	525	333	238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.2
10°-20°	179.8	9.1
20°-30°	273.8	13.8
30°-40°	333.5	16.9
40°-50°	353.8	17.9
50°-60°	333.9	16.9
60°-70°	269.6	13.6
70°-80°	146.3	7.4
80°-90°	23.7	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°	516.3	26.1
0°-40°	849.8	43.0
0°-60°	1537.5	77.8
0°-90°	1977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	662	661	656	661	659	63
15°	638	636	634	639	639	180
25°	591	590	591	597	599	272
35°	523	526	531	542	543	327
45°	437	443	457	474	482	336
55°	332	346	377	401	411	296
65°	214	241	284	307	313	213
75°	94	137	157	142	137	103
85°	17	18	11	9	8	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	665.2	662.1	657.5	662.1	660.6
5°	662.1	660.6	656.0	660.6	659.1
7.5°	657.5	657.5	652.9	656.0	656.0
10°	652.9	651.3	648.3	652.9	651.3
12.5°	645.2	643.6	642.1	646.7	645.2
15°	637.5	635.9	634.4	639.0	639.0
17.5°	628.2	626.6	625.1	631.3	631.3
20°	615.8	615.8	615.8	622.0	620.5
22.5°	603.5	603.5	605.0	611.2	609.7
25°	591.1	589.6	591.1	597.3	598.9
27.5°	575.7	577.3	578.8	585.0	586.5
30°	560.3	561.8	563.4	571.1	572.6
32.5°	541.8	544.8	547.9	557.2	557.2
35°	523.2	526.3	531.0	541.8	543.3
37.5°	503.2	506.3	512.4	524.8	527.9
40°	481.6	486.2	495.5	507.8	512.4
42.5°	460.0	466.1	476.9	490.8	497.0
45°	436.8	443.0	456.9	473.8	481.6
47.5°	412.1	419.8	436.8	458.4	464.6
50°	385.9	396.7	416.7	439.9	447.6
52.5°	359.6	372.0	396.7	421.4	429.1
55°	331.8	345.7	376.6	401.3	410.6
57.5°	304.1	319.5	355.0	381.2	390.5
60°	274.7	293.3	331.8	358.1	365.8
62.5°	245.4	267.0	308.7	334.9	341.1
65°	214.5	240.8	284.0	307.2	313.3
67.5°	185.2	216.1	259.3	276.3	276.3
70°	154.3	188.3	231.5	236.2	226.9
72.5°	123.5	162.1	200.7	183.7	176.0
75°	94.2	137.4	157.4	142.0	137.4
77.5°	71.0	111.1	111.1	101.9	98.8
80°	49.4	84.9	74.1	64.8	60.2
82.5°	32.4	47.8	38.6	30.9	26.2
85°	17.0	18.5	10.8	9.3	7.7
87.5°	6.2	3.1	1.5	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)