

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: P307401

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-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: P307401
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-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 2246.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

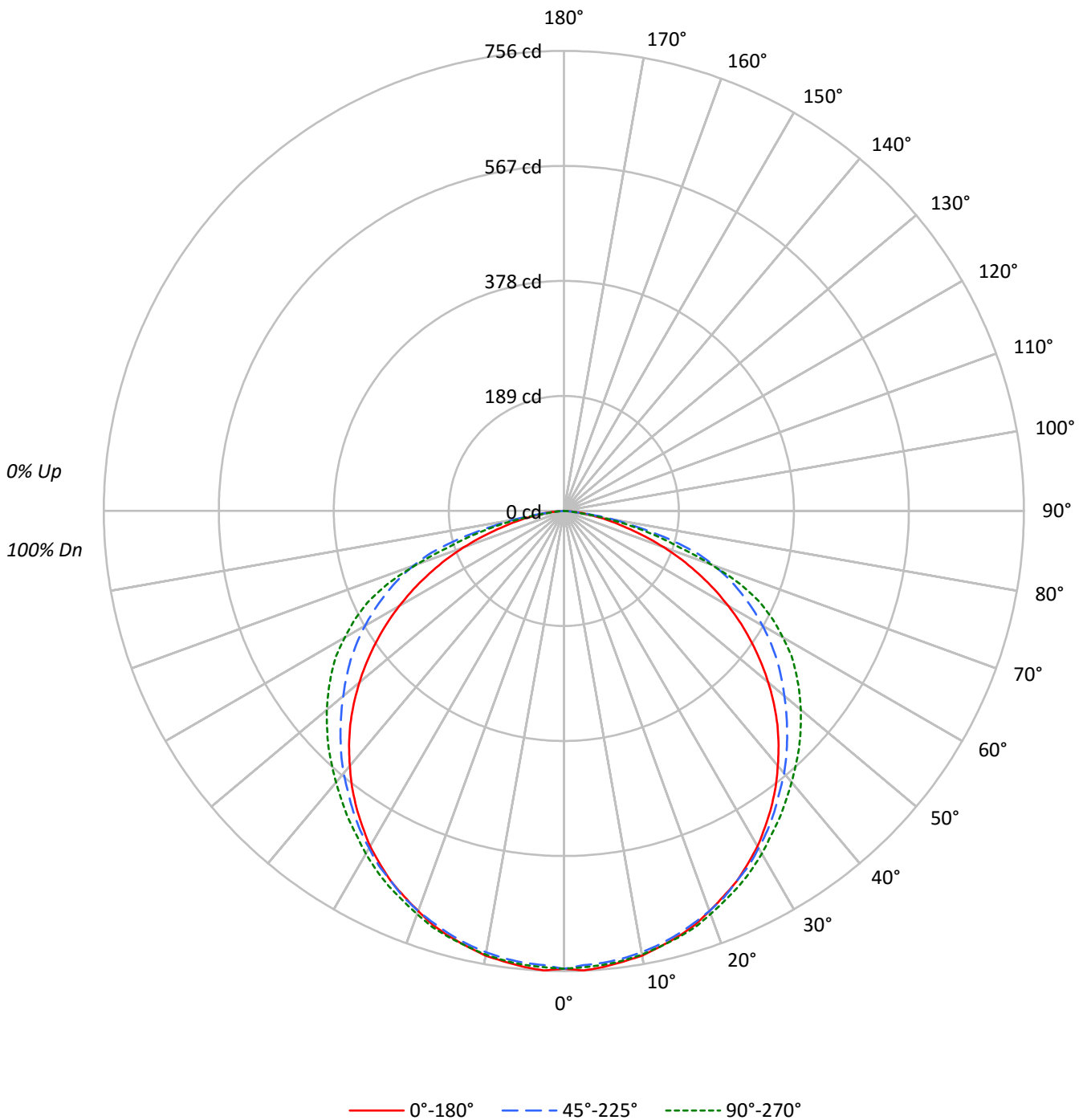
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2024	2024	2024
5°	2032	2013	2022
10°	2027	2012	2022
15°	2018	2008	2022
20°	2003	2003	2019
25°	1994	1994	2020
30°	1978	1989	2021
35°	1953	1982	2028
40°	1922	1977	2045
45°	1888	1975	2082
50°	1835	1982	2129
55°	1769	2007	2188
60°	1680	2029	2237
65°	1552	2054	2267
70°	1379	2069	2028
75°	1112	1860	1623
80°	869	1305	1060
85°	596	380	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.2
10°-20°	204.3	9.1
20°-30°	311.1	13.8
30°-40°	378.9	16.9
40°-50°	401.9	17.9
50°-60°	379.3	16.9
60°-70°	306.3	13.6
70°-80°	166.2	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°	586.5	26.1
0°-40°	965.4	43.0
0°-60°	1746.7	77.8
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	752	750	745	750	749	71
15°	724	722	721	726	726	204
25°	672	670	672	679	680	309
35°	594	598	603	616	617	372
45°	496	503	519	538	547	382
55°	377	393	428	456	466	337
65°	244	274	323	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°	752.2	752.2	752.2	752.2	752.2
2.5°	755.7	752.2	747.0	752.2	750.5
5°	752.2	750.5	745.2	750.5	748.7
7.5°	747.0	747.0	741.7	745.2	745.2
10°	741.7	740.0	736.5	741.7	740.0
12.5°	733.0	731.2	729.4	734.7	733.0
15°	724.2	722.4	720.7	725.9	725.9
17.5°	713.7	711.9	710.2	717.2	717.2
20°	699.6	699.6	699.6	706.7	704.9
22.5°	685.6	685.6	687.4	694.4	692.6
25°	671.6	669.8	671.6	678.6	680.4
27.5°	654.0	655.8	657.6	664.6	666.3
30°	636.5	638.3	640.0	648.8	650.5
32.5°	615.5	619.0	622.5	633.0	633.0
35°	594.4	597.9	603.2	615.5	617.2
37.5°	571.6	575.1	582.2	596.2	599.7
40°	547.1	552.3	562.9	576.9	582.2
42.5°	522.5	529.6	541.8	557.6	564.6
45°	496.2	503.2	519.0	538.3	547.1
47.5°	468.2	476.9	496.2	520.8	527.8
50°	438.4	450.6	473.4	499.7	508.5
52.5°	408.6	422.6	450.6	478.7	487.5
55°	377.0	392.8	427.8	455.9	466.4
57.5°	345.4	363.0	403.3	433.1	443.6
60°	312.1	333.2	377.0	406.8	415.6
62.5°	278.8	303.4	350.7	380.5	387.5
65°	243.7	273.5	322.6	348.9	356.0
67.5°	210.4	245.5	294.6	313.9	313.9
70°	175.3	213.9	263.0	268.3	257.8
72.5°	140.3	184.1	228.0	208.7	199.9
75°	107.0	156.1	178.9	161.3	156.1
77.5°	80.7	126.3	126.3	115.7	112.2
80°	56.1	96.4	84.2	73.6	68.4
82.5°	36.8	54.4	43.8	35.1	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)