

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: P307375

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CP187-W2A-U-6500K**

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: P307375
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: 14FCZ2-29-UNV-L82765-RDP-CP187-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.187" POLYCARB SHEET
Light Source: (168) 6500K 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: 1759.0 lumens
Efficiency: N/A
Efficacy: 70.6 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

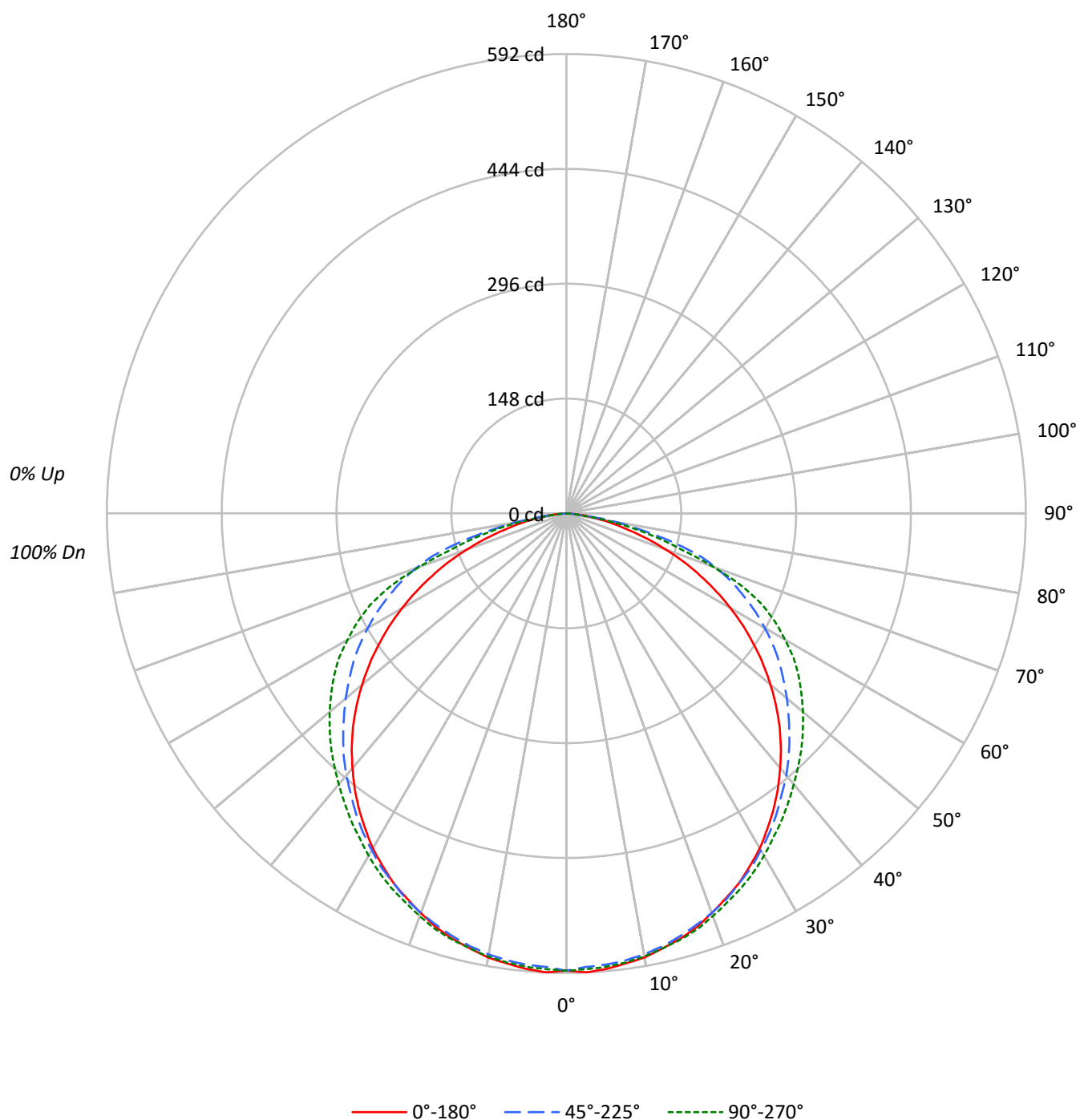
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1585	1585	1585
5°	1591	1576	1584
10°	1587	1576	1583
15°	1580	1572	1584
20°	1569	1569	1581
25°	1562	1562	1582
30°	1549	1557	1583
35°	1529	1552	1588
40°	1505	1548	1601
45°	1479	1547	1631
50°	1437	1552	1667
55°	1385	1572	1714
60°	1315	1589	1752
65°	1216	1609	1775
70°	1080	1621	1589
75°	871	1457	1271
80°	680	1021	831
85°	466	296	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	3.2
10°-20°	160.0	9.1
20°-30°	243.6	13.8
30°-40°	296.7	16.9
40°-50°	314.8	17.9
50°-60°	297.1	16.9
60°-70°	239.9	13.6
70°-80°	130.1	7.4
80°-90°	21.0	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°	459.3	26.1
0°-40°	756.1	43.0
0°-60°	1367.9	77.8
0°-90°	1759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	589	588	584	588	586	56
15°	567	566	564	568	568	160
25°	526	525	526	532	533	242
35°	466	468	472	482	483	291
45°	389	394	406	422	428	299
55°	295	308	335	357	365	264
65°	191	214	253	273	279	189
75°	84	122	140	126	122	92
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.1	589.1	589.1	589.1	589.1
2.5°	591.9	589.1	585.0	589.1	587.8
5°	589.1	587.8	583.6	587.8	586.4
7.5°	585.0	585.0	580.9	583.6	583.6
10°	580.9	579.5	576.8	580.9	579.5
12.5°	574.0	572.7	571.3	575.4	574.0
15°	567.2	565.8	564.4	568.5	568.5
17.5°	558.9	557.5	556.2	561.7	561.7
20°	547.9	547.9	547.9	553.4	552.1
22.5°	536.9	536.9	538.3	543.8	542.4
25°	526.0	524.6	526.0	531.5	532.8
27.5°	512.2	513.6	515.0	520.5	521.8
30°	498.5	499.9	501.2	508.1	509.5
32.5°	482.0	484.8	487.5	495.8	495.8
35°	465.5	468.3	472.4	482.0	483.4
37.5°	447.7	450.4	455.9	466.9	469.7
40°	428.5	432.6	440.8	451.8	455.9
42.5°	409.2	414.7	424.3	436.7	442.2
45°	388.6	394.1	406.5	421.6	428.5
47.5°	366.7	373.5	388.6	407.9	413.4
50°	343.3	352.9	370.8	391.4	398.2
52.5°	320.0	331.0	352.9	374.9	381.8
55°	295.3	307.6	335.1	357.1	365.3
57.5°	270.5	284.3	315.9	339.2	347.4
60°	244.4	260.9	295.3	318.6	325.5
62.5°	218.4	237.6	274.7	298.0	303.5
65°	190.9	214.2	252.7	273.3	278.8
67.5°	164.8	192.3	230.7	245.8	245.8
70°	137.3	167.5	206.0	210.1	201.9
72.5°	109.9	144.2	178.5	163.4	156.6
75°	83.8	122.2	140.1	126.3	122.2
77.5°	63.2	98.9	98.9	90.6	87.9
80°	43.9	75.5	65.9	57.7	53.6
82.5°	28.8	42.6	34.3	27.5	23.3
85°	15.1	16.5	9.6	8.2	6.9
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)