

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: P307474

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP250-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: P307474  
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-CP250-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" 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: 2315.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 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

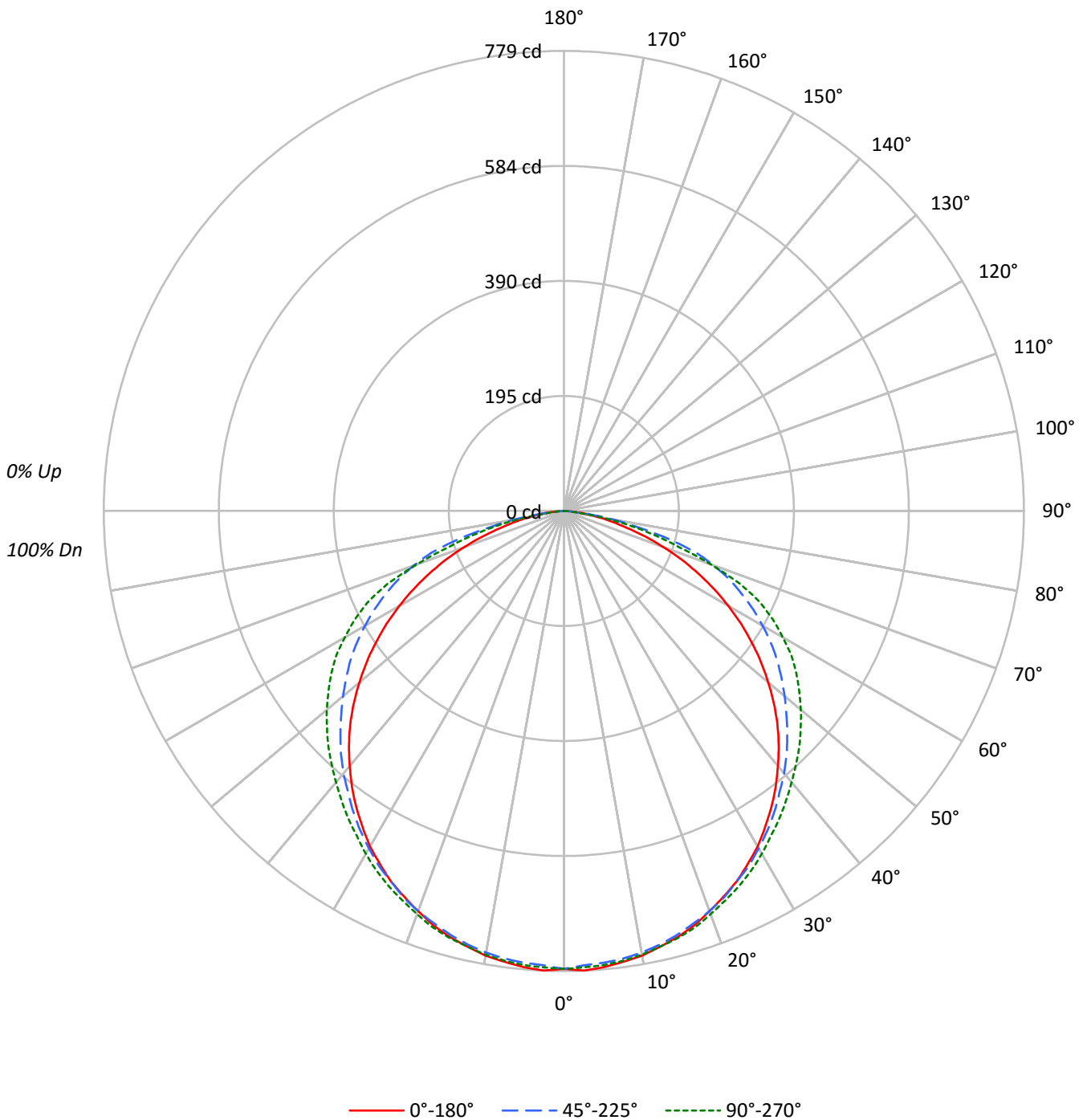
Input Watts (W): 34.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2087	2087	2087
5°	2095	2075	2085
10°	2089	2074	2084
15°	2079	2069	2084
20°	2065	2065	2081
25°	2055	2055	2082
30°	2039	2050	2083
35°	2013	2042	2090
40°	1981	2038	2108
45°	1947	2036	2146
50°	1891	2043	2194
55°	1823	2069	2256
60°	1731	2091	2305
65°	1599	2118	2336
70°	1422	2133	2090
75°	1146	1916	1673
80°	896	1345	1093
85°	614	392	278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.2
10°-20°	210.6	9.1
20°-30°	320.6	13.8
30°-40°	390.5	16.9
40°-50°	414.3	17.9
50°-60°	391.0	16.9
60°-70°	315.7	13.6
70°-80°	171.3	7.4
80°-90°	27.7	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°	604.5	26.1
0°-40°	995.0	43.0
0°-60°	1800.3	77.8
0°-90°	2315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	772	74
15°	746	745	743	748	748	211
25°	692	690	692	699	701	319
35°	613	616	622	634	636	383
45°	512	519	535	555	564	394
55°	389	405	441	470	481	347
65°	251	282	333	360	367	249
75°	110	161	184	166	161	120
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	775.4	775.4	775.4	775.4	775.4
2.5°	779.0	775.4	769.9	775.4	773.5
5°	775.4	773.5	768.1	773.5	771.7
7.5°	769.9	769.9	764.5	768.1	768.1
10°	764.5	762.7	759.1	764.5	762.7
12.5°	755.5	753.7	751.9	757.3	755.5
15°	746.4	744.6	742.8	748.2	748.2
17.5°	735.6	733.8	732.0	739.2	739.2
20°	721.1	721.1	721.1	728.4	726.6
22.5°	706.7	706.7	708.5	715.7	713.9
25°	692.2	690.4	692.2	699.4	701.3
27.5°	674.1	675.9	677.8	685.0	686.8
30°	656.1	657.9	659.7	668.7	670.5
32.5°	634.4	638.0	641.6	652.5	652.5
35°	612.7	616.3	621.7	634.4	636.2
37.5°	589.2	592.8	600.0	614.5	618.1
40°	563.9	569.3	580.2	594.6	600.0
42.5°	538.6	545.8	558.5	574.7	582.0
45°	511.5	518.7	535.0	554.9	563.9
47.5°	482.6	491.6	511.5	536.8	544.0
50°	451.8	464.5	488.0	515.1	524.1
52.5°	421.1	435.6	464.5	493.4	502.4
55°	388.6	404.8	441.0	469.9	480.8
57.5°	356.0	374.1	415.7	446.4	457.3
60°	321.7	343.4	388.6	419.3	428.3
62.5°	287.4	312.7	361.5	392.2	399.4
65°	251.2	281.9	332.6	359.7	366.9
67.5°	216.9	253.0	303.6	323.5	323.5
70°	180.7	220.5	271.1	276.5	265.7
72.5°	144.6	189.8	235.0	215.1	206.0
75°	110.2	160.9	184.3	166.3	160.9
77.5°	83.1	130.1	130.1	119.3	115.7
80°	57.8	99.4	86.8	75.9	70.5
82.5°	38.0	56.0	45.2	36.1	30.7
85°	19.9	21.7	12.7	10.8	9.0
87.5°	7.2	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)