

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: P307154

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP250-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: P307154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)  
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-HRP-CP250-W2A-U-4000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"  
POLYCARB 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**

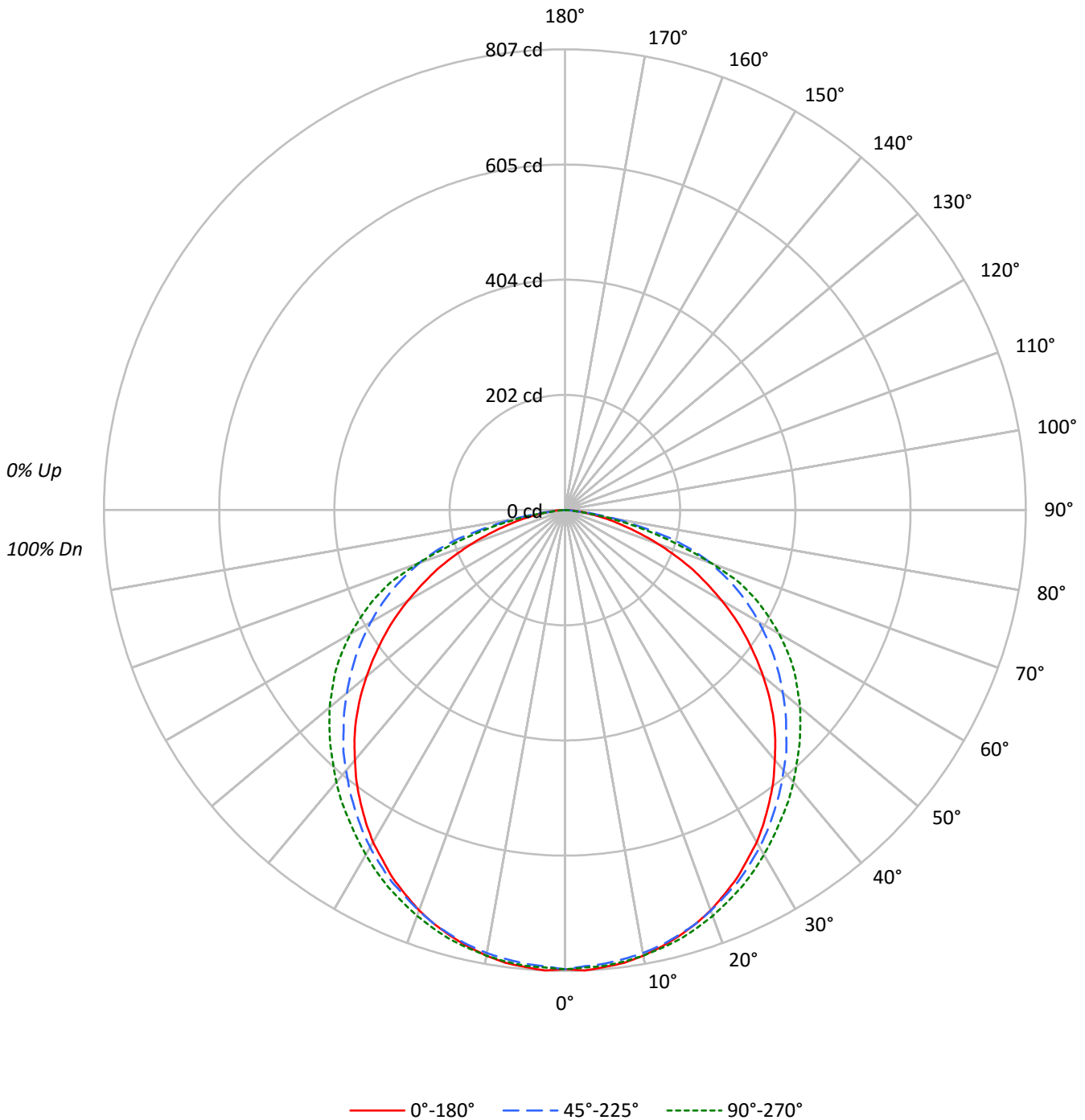
Lumens per Lamp: N/A  
Luminaire Lumens: 2368.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2164	2164	2164
5°	2170	2154	2164
10°	2165	2153	2165
15°	2151	2147	2168
20°	2137	2139	2166
25°	2114	2131	2167
30°	2087	2119	2166
35°	2050	2104	2170
40°	2009	2093	2187
45°	1967	2085	2210
50°	1899	2085	2251
55°	1817	2096	2299
60°	1707	2112	2328
65°	1574	2134	2342
70°	1371	2138	2156
75°	1130	1990	1742
80°	888	1430	1165
85°	689	553	275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.2
10°-20°	218.5	9.2
20°-30°	331.8	14.0
30°-40°	402.0	17.0
40°-50°	423.6	17.9
50°-60°	395.5	16.7
60°-70°	316.0	13.3
70°-80°	173.9	7.3
80°-90°	30.7	1.3
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°	626.4	26.5
0°-40°	1028.3	43.4
0°-60°	1847.4	78.0
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	803	801	798	803	801	76
15°	772	772	771	778	778	218
25°	712	713	718	728	730	328
35°	624	630	640	657	660	390
45°	517	526	548	573	581	398
55°	387	407	447	478	490	346
65°	247	278	335	363	368	243
75°	109	156	191	172	168	117
85°	22	28	18	11	9	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	807.2	804.9	799.7	804.2	802.0
5°	803.4	801.2	797.5	802.7	801.2
7.5°	799.7	796.7	793.0	799.0	797.5
10°	792.3	790.0	787.8	793.0	792.3
12.5°	783.3	782.6	780.4	786.3	785.6
15°	772.2	772.2	770.7	778.1	778.1
17.5°	760.3	759.5	760.3	768.4	767.7
20°	746.1	746.1	746.8	756.5	756.5
22.5°	729.0	729.7	732.0	743.9	743.1
25°	711.9	713.3	717.8	728.2	729.7
27.5°	691.0	694.7	699.9	712.6	714.1
30°	671.6	673.9	682.1	694.0	697.0
32.5°	648.6	653.0	662.0	675.4	679.1
35°	624.0	629.9	640.4	656.8	660.5
37.5°	599.4	604.6	618.8	635.9	642.6
40°	571.9	580.8	595.7	615.1	622.5
42.5°	545.1	554.0	574.1	594.2	600.9
45°	516.8	526.4	548.0	572.6	580.8
47.5°	485.5	496.7	524.2	550.3	559.2
50°	453.5	467.6	498.1	527.2	537.6
52.5°	420.0	437.8	472.8	503.4	513.0
55°	387.2	406.6	446.8	478.0	490.0
57.5°	353.7	374.5	420.0	455.7	462.4
60°	317.2	342.5	392.4	423.7	432.6
62.5°	281.5	310.5	364.1	393.9	401.3
65°	247.2	278.5	335.1	362.6	367.8
67.5°	210.0	247.2	303.1	328.4	329.9
70°	174.2	217.4	271.8	283.7	274.0
72.5°	139.2	185.4	235.3	225.6	217.4
75°	108.7	155.6	191.4	172.0	167.5
77.5°	80.4	127.3	137.0	126.6	118.4
80°	57.3	100.5	92.3	78.9	75.2
82.5°	39.5	63.3	50.6	39.5	34.3
85°	22.3	28.3	17.9	11.2	8.9
87.5°	9.7	6.7	3.7	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)