

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: P307135

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP125-W2A-U-3500K**

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: P307135  
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-CP125-W2A-U-3500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 3500K 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**

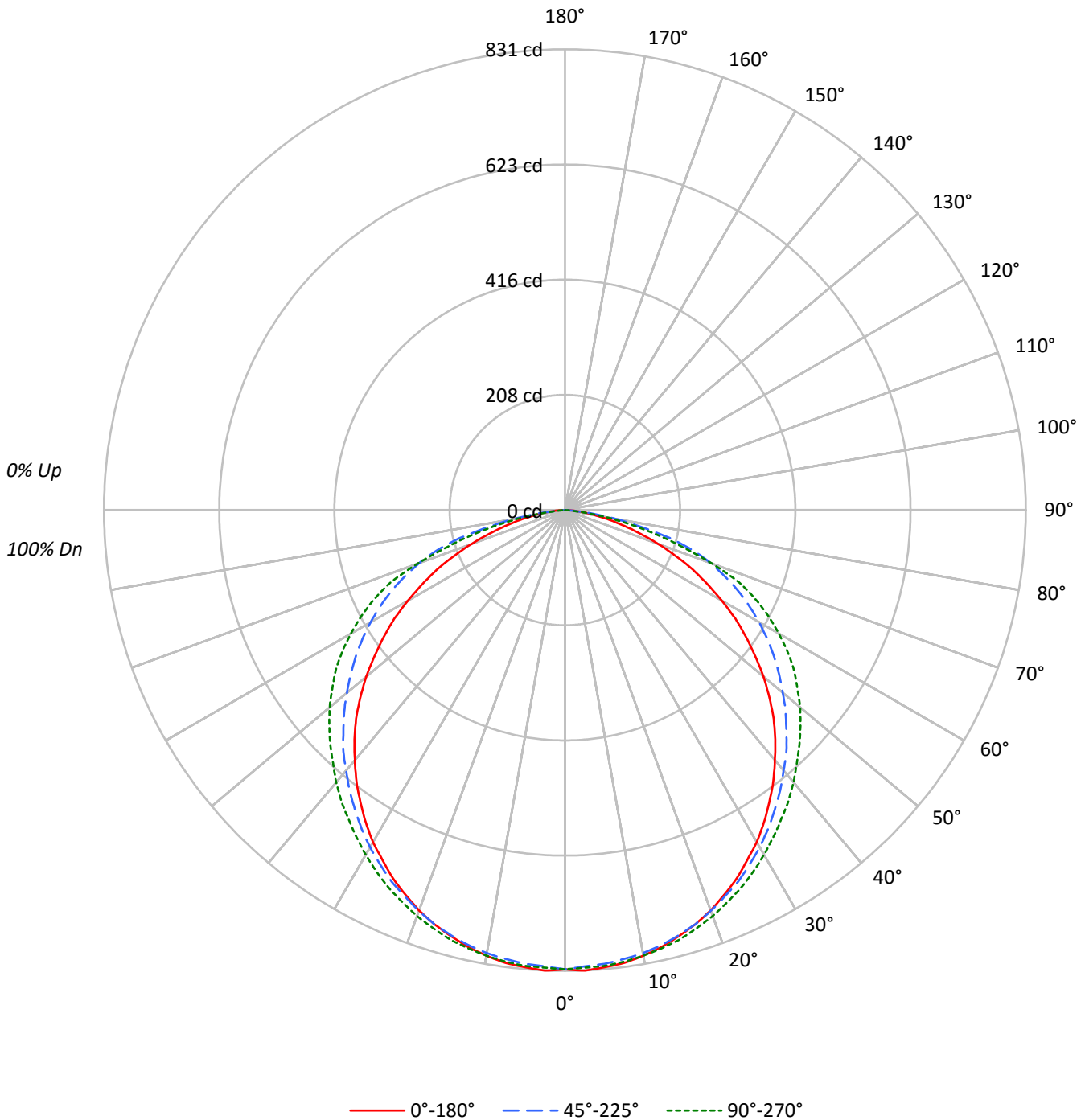
Lumens per Lamp: N/A  
Luminaire Lumens: 2439.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2229	2229	2229
5°	2235	2219	2229
10°	2230	2217	2230
15°	2216	2211	2233
20°	2201	2203	2231
25°	2177	2195	2232
30°	2150	2183	2231
35°	2111	2167	2235
40°	2069	2155	2252
45°	2026	2148	2277
50°	1955	2148	2318
55°	1871	2159	2367
60°	1758	2175	2398
65°	1621	2197	2413
70°	1412	2202	2220
75°	1164	2049	1795
80°	916	1474	1201
85°	710	568	284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	3.2
10°-20°	225.0	9.2
20°-30°	341.7	14.0
30°-40°	414.0	17.0
40°-50°	436.3	17.9
50°-60°	407.3	16.7
60°-70°	325.5	13.3
70°-80°	179.1	7.3
80°-90°	31.6	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°	645.1	26.5
0°-40°	1059.2	43.4
0°-60°	1902.8	78.0
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	828	825	821	827	825	79
15°	795	795	794	802	802	224
25°	733	735	739	750	752	338
35°	643	649	660	676	680	402
45°	532	542	564	590	598	410
55°	399	419	460	492	505	356
65°	255	287	345	374	379	251
75°	112	160	197	177	173	121
85°	23	29	18	12	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828.3	828.3	828.3	828.3	828.3
2.5°	831.4	829.1	823.7	828.3	826.0
5°	827.5	825.2	821.4	826.8	825.2
7.5°	823.7	820.6	816.8	822.9	821.4
10°	816.0	813.7	811.4	816.8	816.0
12.5°	806.8	806.1	803.8	809.9	809.1
15°	795.3	795.3	793.8	801.5	801.5
17.5°	783.0	782.3	783.0	791.5	790.7
20°	768.5	768.5	769.2	779.2	779.2
22.5°	750.8	751.6	753.9	766.2	765.4
25°	733.2	734.7	739.3	750.1	751.6
27.5°	711.7	715.6	720.9	734.0	735.5
30°	691.8	694.1	702.5	714.8	717.9
32.5°	668.0	672.6	681.8	695.6	699.5
35°	642.7	648.8	659.6	676.4	680.3
37.5°	617.4	622.8	637.3	655.0	661.9
40°	589.0	598.2	613.6	633.5	641.2
42.5°	561.4	570.6	591.3	612.0	618.9
45°	532.3	542.2	564.5	589.8	598.2
47.5°	500.0	511.5	539.9	566.8	576.0
50°	467.1	481.6	513.1	543.0	553.7
52.5°	432.6	451.0	487.0	518.5	528.4
55°	398.8	418.8	460.2	492.4	504.6
57.5°	364.3	385.8	432.6	469.4	476.3
60°	326.7	352.8	404.2	436.4	445.6
62.5°	289.9	319.8	375.0	405.7	413.4
65°	254.6	286.8	345.1	373.5	378.9
67.5°	216.3	254.6	312.1	338.2	339.8
70°	179.5	223.9	279.9	292.2	282.2
72.5°	143.4	191.0	242.4	232.4	223.9
75°	112.0	160.3	197.1	177.2	172.6
77.5°	82.8	131.1	141.1	130.4	121.9
80°	59.1	103.5	95.1	81.3	77.5
82.5°	40.6	65.2	52.2	40.6	35.3
85°	23.0	29.1	18.4	11.5	9.2
87.5°	10.0	6.9	3.8	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)