

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: P307137

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP125-W2A-U-4500K**

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: P307137  
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-4500K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 4500K 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**

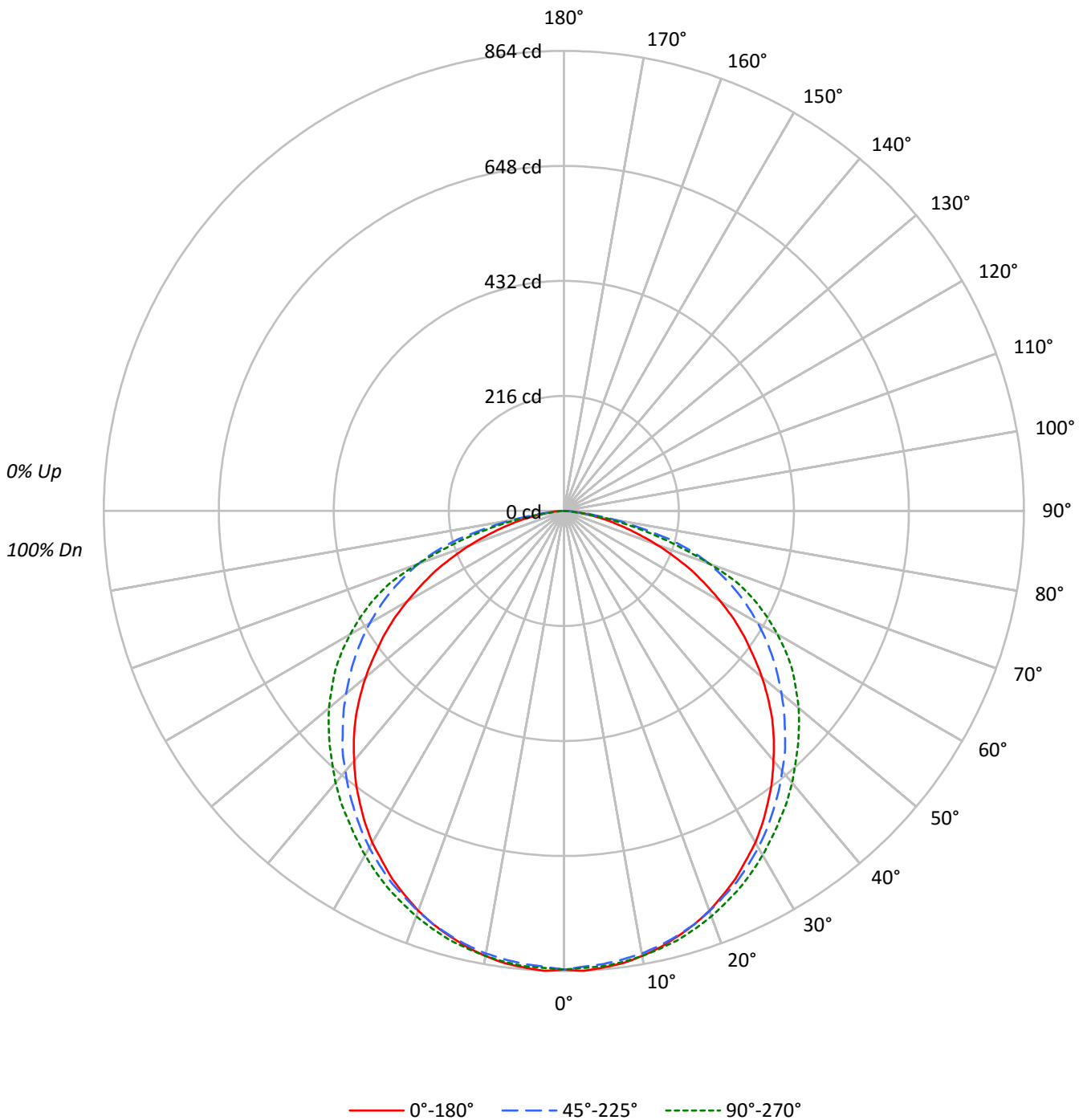
Lumens per Lamp: N/A  
Luminaire Lumens: 2536.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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	100	100	100	100	100		
	1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84	84	84		
	2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69	69	69	69	69	69		
	3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58	58	58	58	58	58		
	4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49	49	49		
	5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42	42	42		
	6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37	37	37	37		
	7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33	33	33	33		
	8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	29	29	29		
	9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26	26	26	26	26	26		
	10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24	24	24	24	24	24		

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

	0°	45°	90°
0°	2317	2317	2317
5°	2324	2307	2318
10°	2319	2305	2319
15°	2304	2299	2321
20°	2288	2290	2320
25°	2264	2282	2320
30°	2235	2270	2319
35°	2195	2253	2324
40°	2151	2241	2342
45°	2106	2234	2367
50°	2033	2233	2411
55°	1946	2245	2462
60°	1828	2262	2493
65°	1686	2285	2508
70°	1468	2290	2309
75°	1210	2130	1865
80°	951	1533	1247
85°	738	590	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	3.2
10°-20°	234.0	9.2
20°-30°	355.3	14.0
30°-40°	430.5	17.0
40°-50°	453.6	17.9
50°-60°	423.5	16.7
60°-70°	338.4	13.3
70°-80°	186.2	7.3
80°-90°	32.9	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°	670.8	26.5
0°-40°	1101.3	43.4
0°-60°	1978.4	78.0
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	858	854	860	858	82
15°	827	827	825	833	833	233
25°	762	764	769	780	782	351
35°	668	675	686	703	707	418
45°	553	564	587	613	622	426
55°	415	435	478	512	525	370
65°	265	298	359	388	394	261
75°	116	167	205	184	179	125
85°	24	30	19	12	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.2	861.2	861.2	861.2	861.2
2.5°	864.4	862.0	856.5	861.2	858.8
5°	860.4	858.0	854.1	859.6	858.0
7.5°	856.5	853.3	849.3	855.7	854.1
10°	848.5	846.1	843.7	849.3	848.5
12.5°	838.9	838.1	835.7	842.1	841.3
15°	826.9	826.9	825.4	833.3	833.3
17.5°	814.2	813.4	814.2	823.0	822.2
20°	799.0	799.0	799.8	810.2	810.2
22.5°	780.7	781.5	783.9	796.6	795.8
25°	762.4	764.0	768.7	779.9	781.5
27.5°	740.0	744.0	749.6	763.2	764.7
30°	719.3	721.7	730.5	743.2	746.4
32.5°	694.6	699.4	708.9	723.3	727.3
35°	668.3	674.6	685.8	703.3	707.3
37.5°	641.9	647.5	662.7	681.0	688.2
40°	612.4	622.0	638.0	658.7	666.7
42.5°	583.7	593.3	614.8	636.4	643.5
45°	553.4	563.8	586.9	613.2	622.0
47.5°	519.9	531.9	561.4	589.3	598.9
50°	485.6	500.8	533.5	564.6	575.8
52.5°	449.8	468.9	506.4	539.1	549.4
55°	414.7	435.4	478.5	512.0	524.7
57.5°	378.8	401.1	449.8	488.0	495.2
60°	339.7	366.8	420.3	453.7	463.3
62.5°	301.4	332.5	389.9	421.8	429.8
65°	264.8	298.2	358.8	388.4	393.9
67.5°	224.9	264.8	324.6	351.7	353.3
70°	186.6	232.9	291.1	303.8	293.5
72.5°	149.1	198.6	252.0	241.6	232.9
75°	116.4	166.7	204.9	184.2	179.4
77.5°	86.1	136.4	146.7	135.6	126.8
80°	61.4	107.7	98.9	84.5	80.5
82.5°	42.3	67.8	54.2	42.3	36.7
85°	23.9	30.3	19.1	12.0	9.6
87.5°	10.4	7.2	4.0	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)