

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: P307454

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP125-W2A-U-5500K**

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: P307454  
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-CP125-W2A-U-5500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET  
Light Source: (168) 5500K 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: 2424.0 lumens  
Efficiency: N/A  
Efficacy: 70.9 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

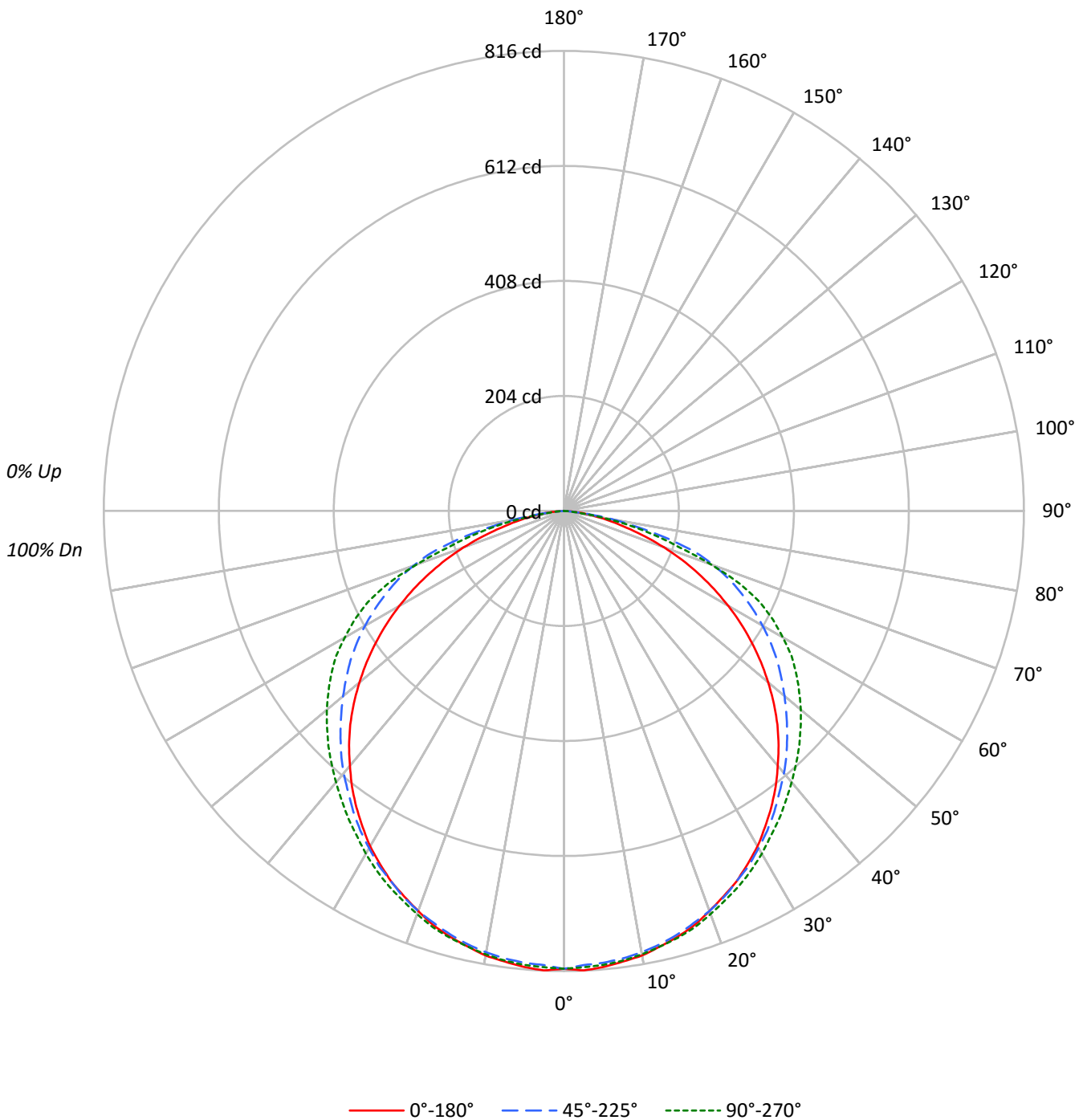
Input Watts (W): 34.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2185	2185	2185
5°	2193	2173	2183
10°	2187	2172	2182
15°	2177	2167	2183
20°	2162	2162	2179
25°	2152	2152	2180
30°	2135	2146	2182
35°	2107	2139	2188
40°	2074	2134	2207
45°	2038	2132	2247
50°	1981	2139	2298
55°	1909	2167	2362
60°	1813	2190	2414
65°	1675	2217	2446
70°	1489	2234	2189
75°	1200	2007	1751
80°	939	1407	1144
85°	642	408	293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	3.2
10°-20°	220.5	9.1
20°-30°	335.7	13.8
30°-40°	408.9	16.9
40°-50°	433.8	17.9
50°-60°	409.4	16.9
60°-70°	330.6	13.6
70°-80°	179.3	7.4
80°-90°	29.0	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°	633.0	26.1
0°-40°	1041.9	43.0
0°-60°	1885.1	77.8
0°-90°	2424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	812	810	804	810	808	77
15°	782	780	778	784	784	221
25°	725	723	725	732	734	334
35°	642	645	651	664	666	401
45°	536	543	560	581	590	412
55°	407	424	462	492	503	363
65°	263	295	348	377	384	261
75°	115	168	193	174	168	126
85°	21	23	13	11	10	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	811.9	811.9	811.9	811.9	811.9
2.5°	815.6	811.9	806.2	811.9	810.0
5°	811.9	810.0	804.3	810.0	808.1
7.5°	806.2	806.2	800.5	804.3	804.3
10°	800.5	798.6	794.8	800.5	798.6
12.5°	791.0	789.2	787.3	792.9	791.0
15°	781.6	779.7	777.8	783.5	783.5
17.5°	770.2	768.3	766.4	774.0	774.0
20°	755.1	755.1	755.1	762.7	760.8
22.5°	739.9	739.9	741.8	749.4	747.5
25°	724.8	722.9	724.8	732.4	734.3
27.5°	705.9	707.8	709.7	717.2	719.1
30°	687.0	688.9	690.7	700.2	702.1
32.5°	664.2	668.0	671.8	683.2	683.2
35°	641.5	645.3	651.0	664.2	666.1
37.5°	616.9	620.7	628.3	643.4	647.2
40°	590.4	596.1	607.5	622.6	628.3
42.5°	563.9	571.5	584.8	601.8	609.4
45°	535.6	543.1	560.2	581.0	590.4
47.5°	505.3	514.7	535.6	562.1	569.6
50°	473.1	486.4	511.0	539.3	548.8
52.5°	440.9	456.1	486.4	516.6	526.1
55°	406.9	423.9	461.8	492.0	503.4
57.5°	372.8	391.7	435.3	467.4	478.8
60°	336.9	359.6	406.9	439.0	448.5
62.5°	300.9	327.4	378.5	410.7	418.2
65°	263.1	295.2	348.2	376.6	384.2
67.5°	227.1	264.9	317.9	338.7	338.7
70°	189.2	230.9	283.9	289.5	278.2
72.5°	151.4	198.7	246.0	225.2	215.7
75°	115.4	168.4	193.0	174.1	168.4
77.5°	87.1	136.3	136.3	124.9	121.1
80°	60.6	104.1	90.8	79.5	73.8
82.5°	39.7	58.7	47.3	37.8	32.2
85°	20.8	22.7	13.2	11.4	9.5
87.5°	7.6	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)