

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: P312035

Luminaire Tested: **14FCZ2-25-UNV-L83050-RDP-CP250-W2A-U-3000K**

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: P312035  
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: 14FCZ2-25-UNV-L83050-RDP-CP250-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET  
Light Source: (168) 3000K 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**

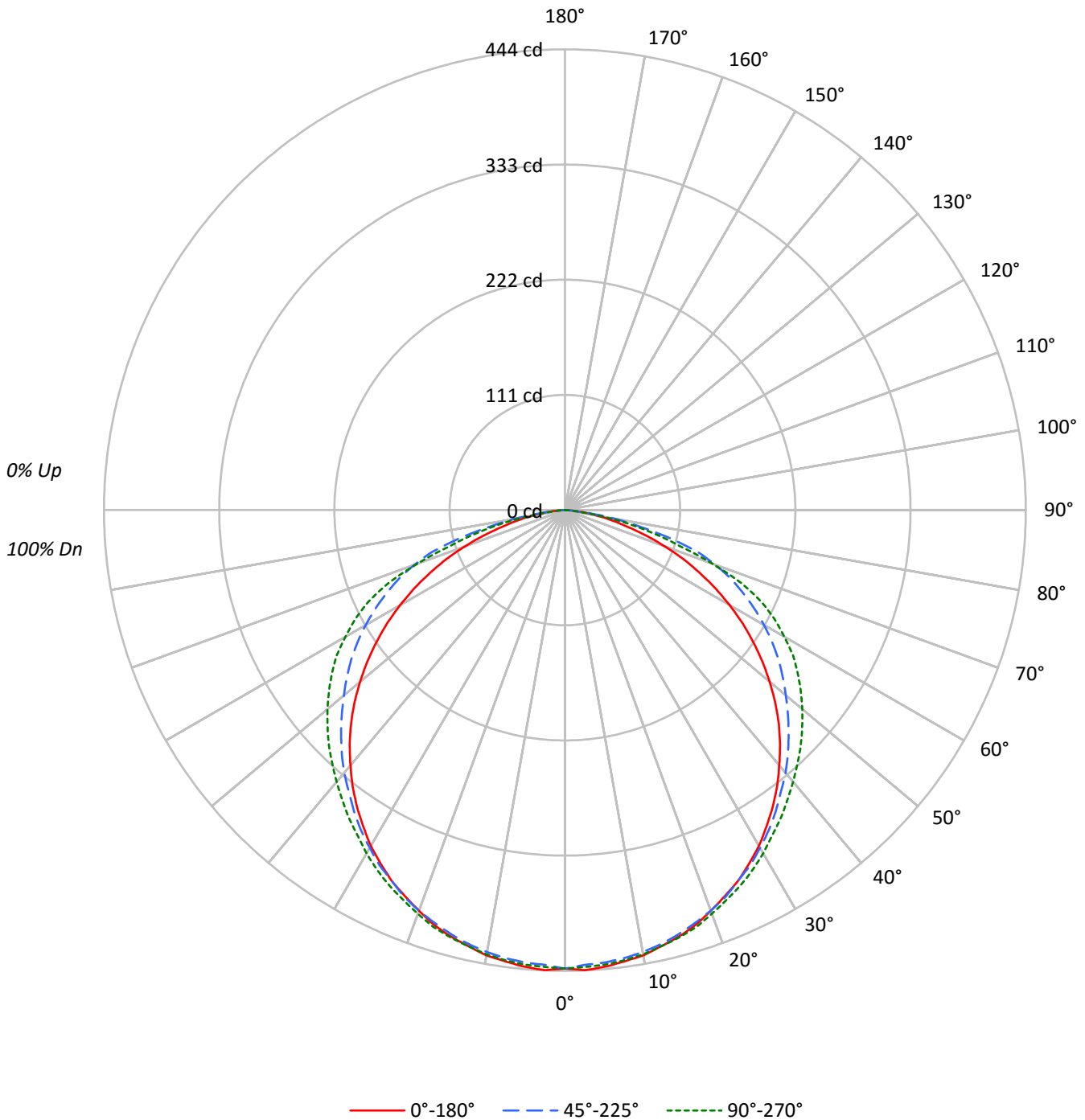
Lumens per Lamp: N/A  
Luminaire Lumens: 1319.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	1189	1189	1189
5°	1193	1182	1188
10°	1190	1182	1188
15°	1185	1179	1188
20°	1177	1177	1186
25°	1171	1171	1186
30°	1161	1168	1187
35°	1147	1164	1191
40°	1129	1161	1201
45°	1109	1160	1223
50°	1078	1164	1250
55°	1039	1179	1285
60°	987	1192	1314
65°	911	1207	1331
70°	810	1216	1191
75°	653	1092	952
80°	511	766	623
85°	349	222	157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	3.2
10°-20°	120.0	9.1
20°-30°	182.7	13.8
30°-40°	222.5	16.9
40°-50°	236.0	17.9
50°-60°	222.8	16.9
60°-70°	179.9	13.6
70°-80°	97.6	7.4
80°-90°	15.8	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°	344.5	26.1
0°-40°	566.9	43.0
0°-60°	1025.8	77.8
0°-90°	1319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	442	441	438	441	440	42
15°	425	424	423	426	426	120
25°	394	393	394	398	400	182
35°	349	351	354	361	362	218
45°	291	296	305	316	321	224
55°	221	231	251	268	274	198
65°	143	161	190	205	209	142
75°	63	92	105	95	92	69
85°	11	12	7	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	441.8	441.8	441.8	441.8	441.8
2.5°	443.8	441.8	438.7	441.8	440.7
5°	441.8	440.7	437.6	440.7	439.7
7.5°	438.7	438.7	435.6	437.6	437.6
10°	435.6	434.6	432.5	435.6	434.6
12.5°	430.4	429.4	428.4	431.5	430.4
15°	425.3	424.3	423.2	426.3	426.3
17.5°	419.1	418.1	417.1	421.2	421.2
20°	410.9	410.9	410.9	415.0	414.0
22.5°	402.6	402.6	403.7	407.8	406.8
25°	394.4	393.4	394.4	398.5	399.5
27.5°	384.1	385.1	386.2	390.3	391.3
30°	373.8	374.8	375.9	381.0	382.0
32.5°	361.4	363.5	365.6	371.7	371.7
35°	349.1	351.1	354.2	361.4	362.5
37.5°	335.7	337.8	341.9	350.1	352.2
40°	321.3	324.4	330.6	338.8	341.9
42.5°	306.9	311.0	318.2	327.5	331.6
45°	291.4	295.5	304.8	316.1	321.3
47.5°	274.9	280.1	291.4	305.8	310.0
50°	257.4	264.6	278.0	293.5	298.6
52.5°	239.9	248.2	264.6	281.1	286.3
55°	221.4	230.7	251.3	267.7	273.9
57.5°	202.9	213.2	236.8	254.4	260.5
60°	183.3	195.7	221.4	238.9	244.1
62.5°	163.7	178.1	206.0	223.5	227.6
65°	143.1	160.6	189.5	204.9	209.0
67.5°	123.6	144.2	173.0	184.3	184.3
70°	103.0	125.6	154.5	157.6	151.4
72.5°	82.4	108.1	133.9	122.5	117.4
75°	62.8	91.6	105.0	94.7	91.6
77.5°	47.4	74.1	74.1	68.0	65.9
80°	33.0	56.6	49.4	43.2	40.2
82.5°	21.6	31.9	25.7	20.6	17.5
85°	11.3	12.4	7.2	6.2	5.1
87.5°	4.1	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)