

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: P307789

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP250-W2A-U-6500K**

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: P307789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-44-UNV-L82765-CP250-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" POLYCARB SHEET  
Light Source: (168) 6500K 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: 4031.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

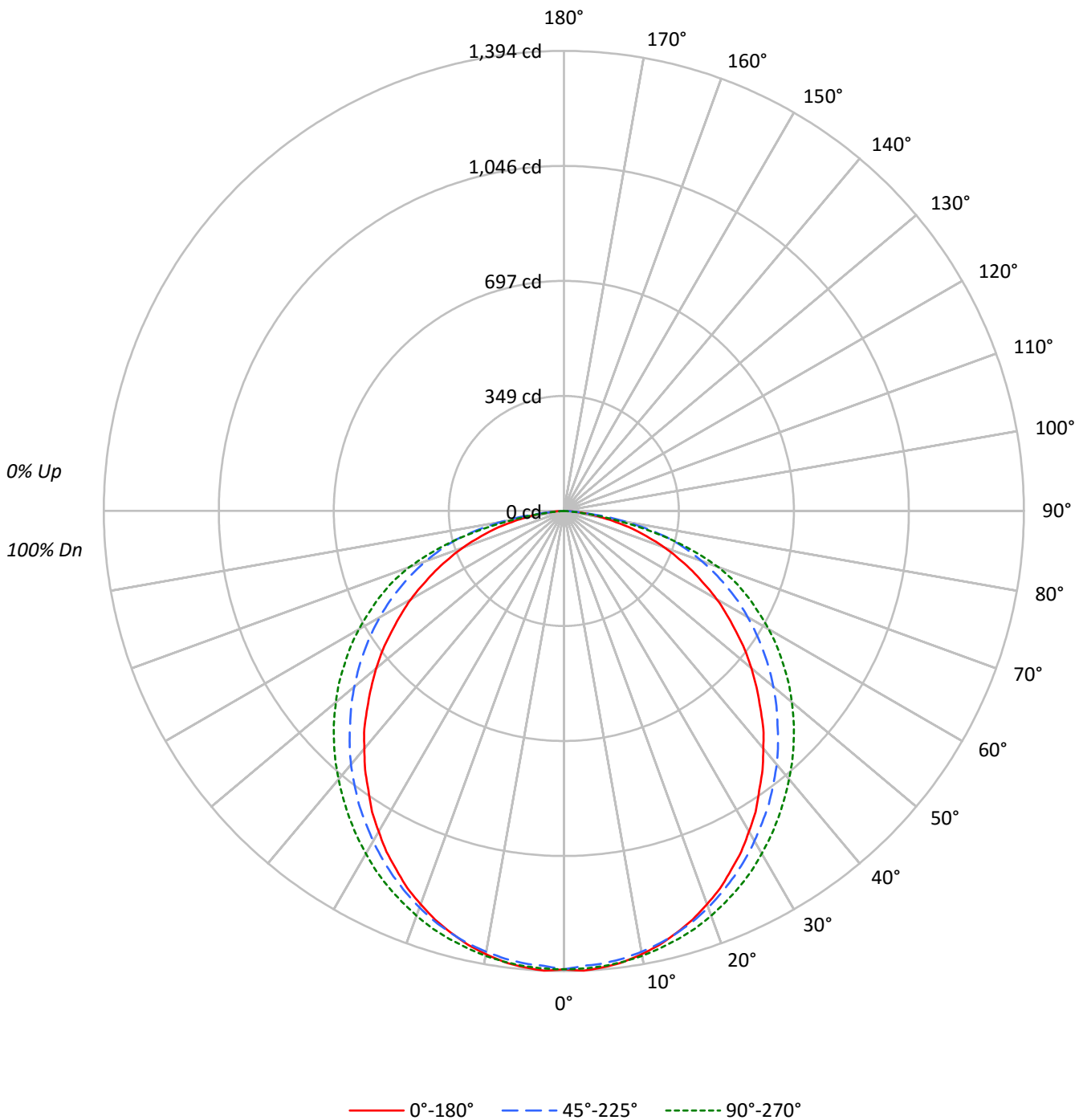
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3737	3737	3737
5°	3749	3717	3739
10°	3726	3706	3741
15°	3686	3689	3739
20°	3632	3663	3737
25°	3563	3627	3734
30°	3485	3589	3726
35°	3393	3558	3723
40°	3303	3524	3729
45°	3202	3486	3749
50°	3108	3469	3774
55°	2990	3458	3808
60°	2883	3464	3860
65°	2735	3474	3920
70°	2567	3500	3918
75°	2327	3533	3542
80°	1908	3050	2521
85°	1414	1442	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	3.3
10°-20°	375.4	9.3
20°-30°	565.5	14.0
30°-40°	678.6	16.8
40°-50°	707.3	17.5
50°-60°	654.8	16.2
60°-70°	529.0	13.1
70°-80°	322.6	8.0
80°-90°	66.6	1.7
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°	1072.3	26.6
0°-40°	1750.8	43.4
0°-60°	3112.8	77.2
0°-90°	4031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1388	1384	1376	1386	1384	132
15°	1323	1324	1324	1342	1342	373
25°	1200	1207	1222	1252	1258	553
35°	1033	1049	1083	1123	1133	647
45°	841	866	916	967	985	650
55°	637	670	737	795	812	571
65°	430	472	546	600	616	425
75°	224	273	340	345	341	235
85°	46	68	47	26	19	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1394.1	1389.6	1379.7	1389.6	1387.8
5°	1387.8	1384.2	1376.1	1386.0	1384.2
7.5°	1378.8	1375.2	1368.0	1379.7	1377.9
10°	1363.5	1361.7	1356.3	1369.8	1368.9
12.5°	1345.5	1344.6	1342.0	1357.2	1356.3
15°	1323.1	1324.0	1324.0	1342.0	1342.0
17.5°	1297.9	1299.7	1303.3	1323.1	1325.8
20°	1268.2	1271.8	1279.0	1301.5	1305.1
22.5°	1237.7	1240.4	1251.2	1278.1	1281.7
25°	1199.9	1207.1	1221.5	1252.1	1257.5
27.5°	1164.0	1170.3	1190.1	1221.5	1230.5
30°	1121.7	1131.6	1155.0	1189.2	1199.0
32.5°	1081.3	1092.1	1119.0	1158.6	1167.6
35°	1032.8	1048.9	1083.1	1122.6	1133.4
37.5°	988.7	1004.0	1042.6	1085.8	1098.4
40°	940.2	959.1	1003.1	1048.9	1061.5
42.5°	895.2	913.2	960.8	1007.6	1024.7
45°	841.3	866.5	915.9	967.1	985.1
47.5°	791.9	817.0	873.7	928.5	944.7
50°	742.4	769.4	828.7	885.3	901.5
52.5°	691.2	720.0	783.8	840.4	859.3
55°	637.3	670.5	737.0	794.6	811.6
57.5°	586.0	620.2	691.2	749.6	766.7
60°	535.7	570.8	643.6	699.3	717.3
62.5°	480.0	521.3	596.8	651.7	665.1
65°	429.6	471.9	545.6	600.4	615.7
67.5°	376.6	422.5	496.2	546.5	560.9
70°	326.3	373.9	444.9	491.7	498.0
72.5°	272.3	320.9	392.8	422.5	422.5
75°	223.8	273.2	339.8	345.2	340.7
77.5°	170.8	225.6	268.8	258.0	247.2
80°	123.1	177.1	196.8	177.1	162.7
82.5°	82.7	128.5	118.6	94.4	83.6
85°	45.8	68.3	46.7	26.1	18.9
87.5°	17.1	15.3	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)