

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: P307757

Luminaire Tested: **14FCZ2-44-UNV-L82765-CA125-W2A-U-4000K**

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: P307757  
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-CA125-W2A-U-4000K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 4000K 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**

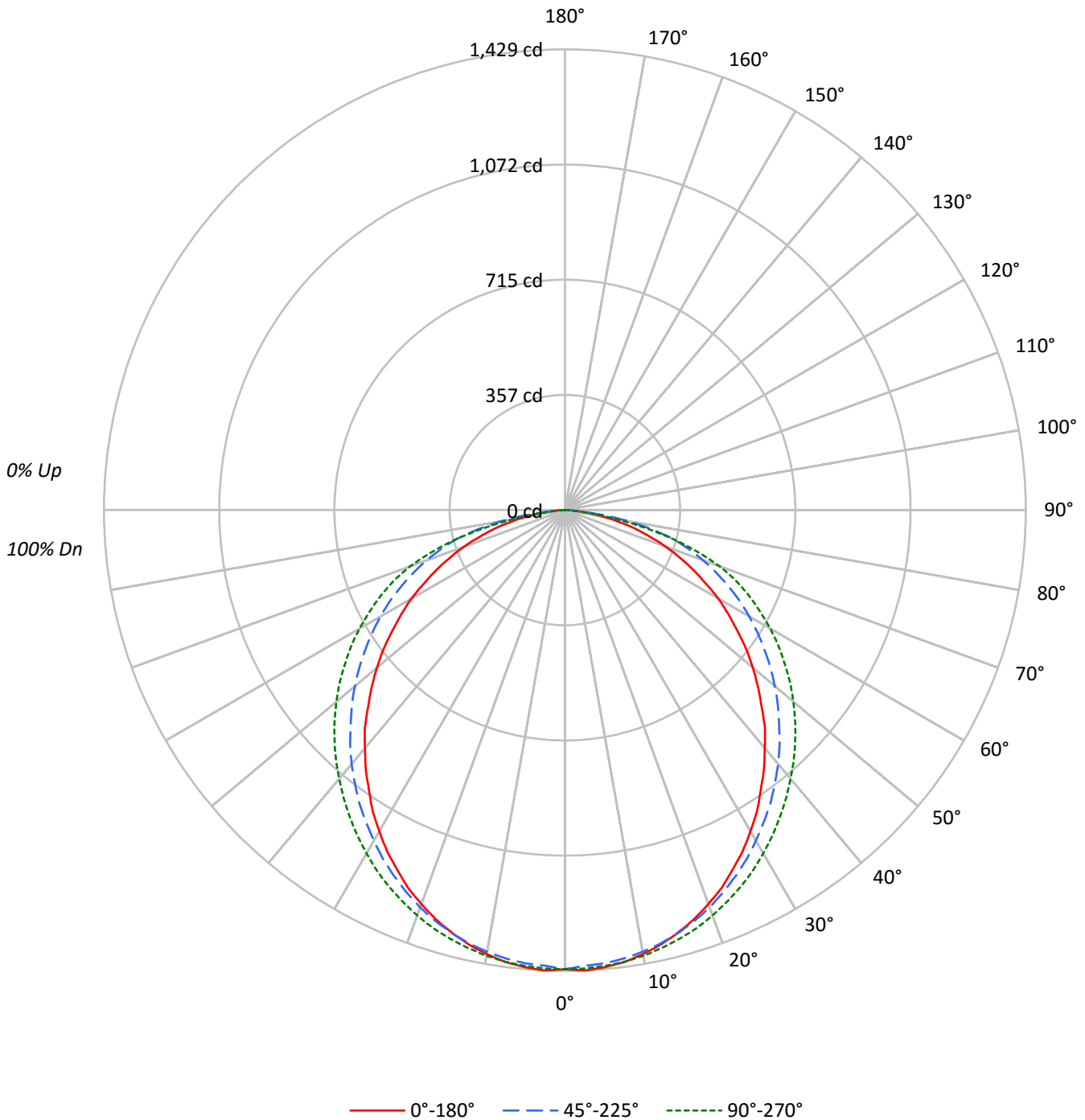
Lumens per Lamp: N/A  
Luminaire Lumens: 4133.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	3831	3831	3831
5°	3844	3811	3834
10°	3820	3800	3835
15°	3779	3782	3833
20°	3724	3755	3832
25°	3653	3719	3828
30°	3574	3680	3820
35°	3479	3648	3818
40°	3386	3613	3823
45°	3283	3574	3844
50°	3187	3557	3870
55°	3065	3545	3904
60°	2956	3551	3958
65°	2805	3562	4020
70°	2632	3589	4017
75°	2386	3622	3632
80°	1957	3127	2585
85°	1451	1479	599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	3.3
10°-20°	384.9	9.3
20°-30°	579.8	14.0
30°-40°	695.7	16.8
40°-50°	725.2	17.5
50°-60°	671.3	16.2
60°-70°	542.4	13.1
70°-80°	330.7	8.0
80°-90°	68.3	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°	1099.4	26.6
0°-40°	1795.1	43.4
0°-60°	3191.6	77.2
0°-90°	4133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1423	1419	1411	1421	1419	135
15°	1357	1358	1358	1376	1376	382
25°	1230	1238	1252	1284	1289	567
35°	1059	1076	1110	1151	1162	663
45°	863	888	939	992	1010	667
55°	653	688	756	815	832	585
65°	440	484	559	616	631	436
75°	230	280	348	354	349	241
85°	47	70	48	27	19	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.8	1423.8	1423.8	1423.8	1423.8
2.5°	1429.4	1424.8	1414.6	1424.8	1422.9
5°	1422.9	1419.2	1410.9	1421.1	1419.2
7.5°	1413.7	1410.0	1402.6	1414.6	1412.8
10°	1398.0	1396.2	1390.7	1404.5	1403.6
12.5°	1379.6	1378.7	1375.9	1391.6	1390.7
15°	1356.6	1357.5	1357.5	1375.9	1375.9
17.5°	1330.8	1332.6	1336.3	1356.6	1359.3
20°	1300.3	1304.0	1311.4	1334.4	1338.1
22.5°	1269.0	1271.8	1282.8	1310.5	1314.2
25°	1230.3	1237.7	1252.4	1283.8	1289.3
27.5°	1193.4	1199.9	1220.2	1252.4	1261.6
30°	1150.1	1160.3	1184.2	1219.2	1229.4
32.5°	1108.7	1119.7	1147.4	1187.9	1197.1
35°	1058.9	1075.5	1110.5	1151.0	1162.1
37.5°	1013.7	1029.4	1069.0	1113.3	1126.2
40°	964.0	983.3	1028.5	1075.5	1088.4
42.5°	917.9	936.3	985.2	1033.1	1050.6
45°	862.6	888.4	939.1	991.6	1010.0
47.5°	811.9	837.7	895.8	952.0	968.6
50°	761.2	788.9	849.7	907.8	924.3
52.5°	708.7	738.2	803.6	861.7	881.0
55°	653.4	687.5	755.7	814.7	832.2
57.5°	600.9	635.9	708.7	768.6	786.1
60°	549.3	585.2	659.8	717.0	735.4
62.5°	492.1	534.5	611.9	668.1	682.0
65°	440.5	483.8	559.4	615.6	631.3
67.5°	386.1	433.1	508.7	560.3	575.1
70°	334.5	383.4	456.2	504.1	510.6
72.5°	279.2	329.0	402.7	433.1	433.1
75°	229.5	280.2	348.4	353.9	349.3
77.5°	175.1	231.3	275.6	264.5	253.4
80°	126.3	181.6	201.8	181.6	166.8
82.5°	84.8	131.8	121.6	96.8	85.7
85°	47.0	70.0	47.9	26.7	19.4
87.5°	17.5	15.7	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)