

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: P307761

Luminaire Tested: **14FCZ2-44-UNV-L82765-CA125-W2A-U-5700K**

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: P307761  
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-5700K  
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET  
Light Source: (168) 5700K 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**

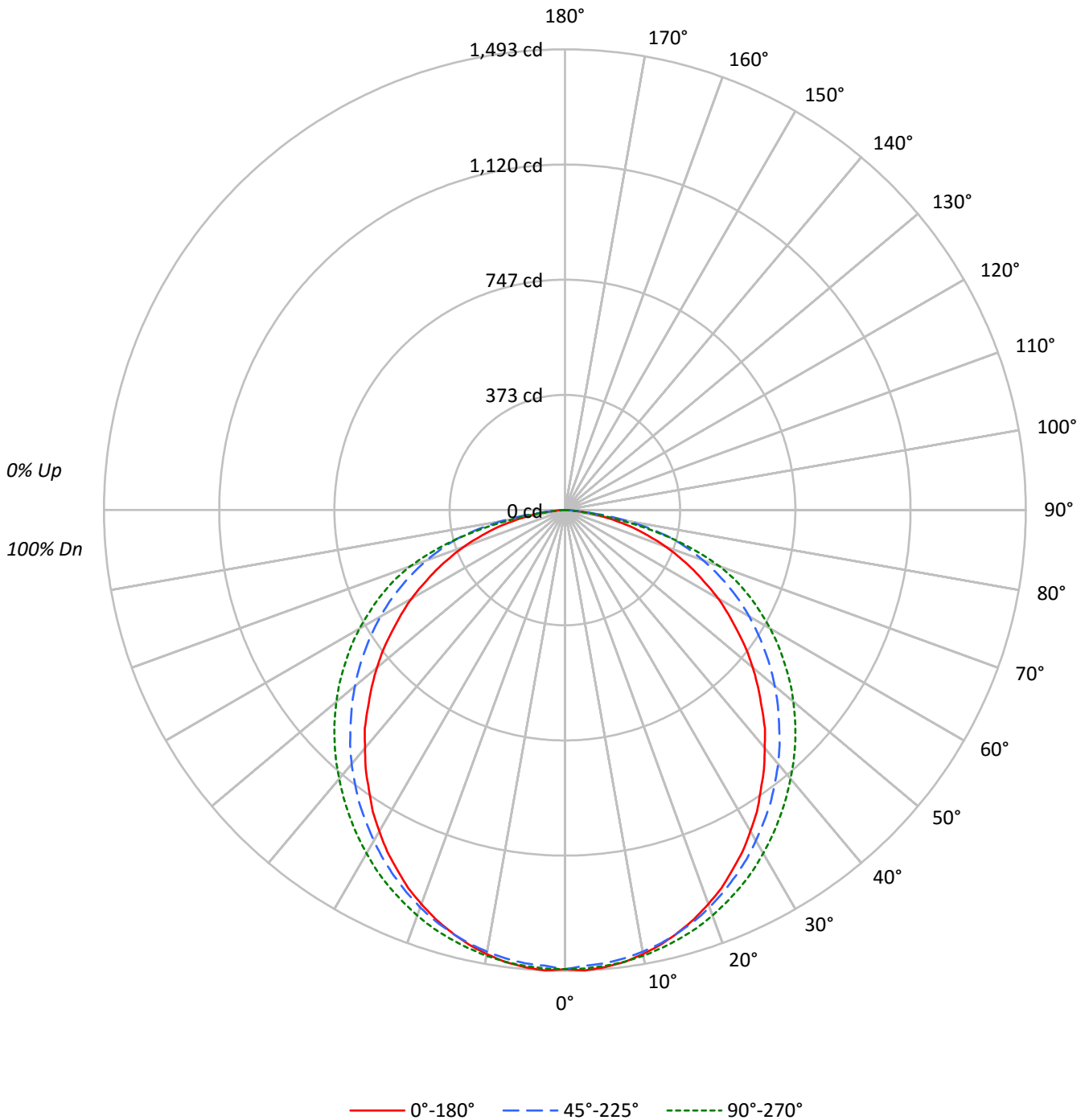
Lumens per Lamp: N/A  
Luminaire Lumens: 4318.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	4003	4003	4003
5°	4016	3982	4005
10°	3991	3970	4007
15°	3948	3951	4005
20°	3890	3924	4003
25°	3817	3885	3999
30°	3734	3844	3991
35°	3634	3811	3988
40°	3538	3775	3994
45°	3430	3734	4016
50°	3329	3716	4043
55°	3202	3704	4079
60°	3088	3710	4135
65°	2930	3721	4199
70°	2750	3750	4197
75°	2492	3784	3794
80°	2044	3268	2701
85°	1516	1547	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	3.3
10°-20°	402.1	9.3
20°-30°	605.7	14.0
30°-40°	726.9	16.8
40°-50°	757.6	17.5
50°-60°	701.4	16.2
60°-70°	566.7	13.1
70°-80°	345.5	8.0
80°-90°	71.3	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°	1148.6	26.6
0°-40°	1875.5	43.4
0°-60°	3334.5	77.2
0°-90°	4318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1487	1483	1474	1485	1483	141
15°	1417	1418	1418	1438	1438	400
25°	1285	1293	1308	1341	1347	592
35°	1106	1124	1160	1203	1214	693
45°	901	928	981	1036	1055	697
55°	683	718	790	851	869	612
65°	460	506	584	643	660	455
75°	240	293	364	370	365	252
85°	49	73	50	28	20	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1493.3	1488.5	1477.9	1488.5	1486.6
5°	1486.6	1482.8	1474.1	1484.7	1482.8
7.5°	1477.0	1473.1	1465.4	1477.9	1476.0
10°	1460.6	1458.7	1452.9	1467.3	1466.4
12.5°	1441.3	1440.4	1437.5	1453.9	1452.9
15°	1417.3	1418.2	1418.2	1437.5	1437.5
17.5°	1390.3	1392.2	1396.1	1417.3	1420.2
20°	1358.5	1362.4	1370.1	1394.2	1398.0
22.5°	1325.8	1328.7	1340.3	1369.1	1373.0
25°	1285.4	1293.1	1308.5	1341.2	1347.0
27.5°	1246.9	1253.6	1274.8	1308.5	1318.1
30°	1201.6	1212.2	1237.2	1273.8	1284.4
32.5°	1158.3	1169.8	1198.7	1241.1	1250.7
35°	1106.3	1123.6	1160.2	1202.6	1214.1
37.5°	1059.1	1075.5	1116.9	1163.1	1176.6
40°	1007.1	1027.3	1074.5	1123.6	1137.1
42.5°	959.0	978.2	1029.3	1079.3	1097.6
45°	901.2	928.2	981.1	1036.0	1055.3
47.5°	848.2	875.2	935.9	994.6	1011.9
50°	795.3	824.2	887.7	948.4	965.7
52.5°	740.4	771.2	839.6	900.2	920.5
55°	682.6	718.3	789.5	851.1	869.4
57.5°	627.8	664.3	740.4	803.0	821.3
60°	573.8	611.4	689.4	749.1	768.3
62.5°	514.1	558.4	639.3	698.0	712.5
65°	460.2	505.5	584.4	643.2	659.5
67.5°	403.4	452.5	531.5	585.4	600.8
70°	349.5	400.5	476.6	526.7	533.4
72.5°	291.7	343.7	420.8	452.5	452.5
75°	239.7	292.7	363.9	369.7	364.9
77.5°	182.9	241.7	287.9	276.3	264.8
80°	131.9	189.7	210.9	189.7	174.3
82.5°	88.6	137.7	127.1	101.1	89.5
85°	49.1	73.2	50.1	27.9	20.2
87.5°	18.3	16.4	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)