

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: P307762

Luminaire Tested: **14FCZ2-44-UNV-L82765-CA125-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: P307762
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-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC 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: 4328.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

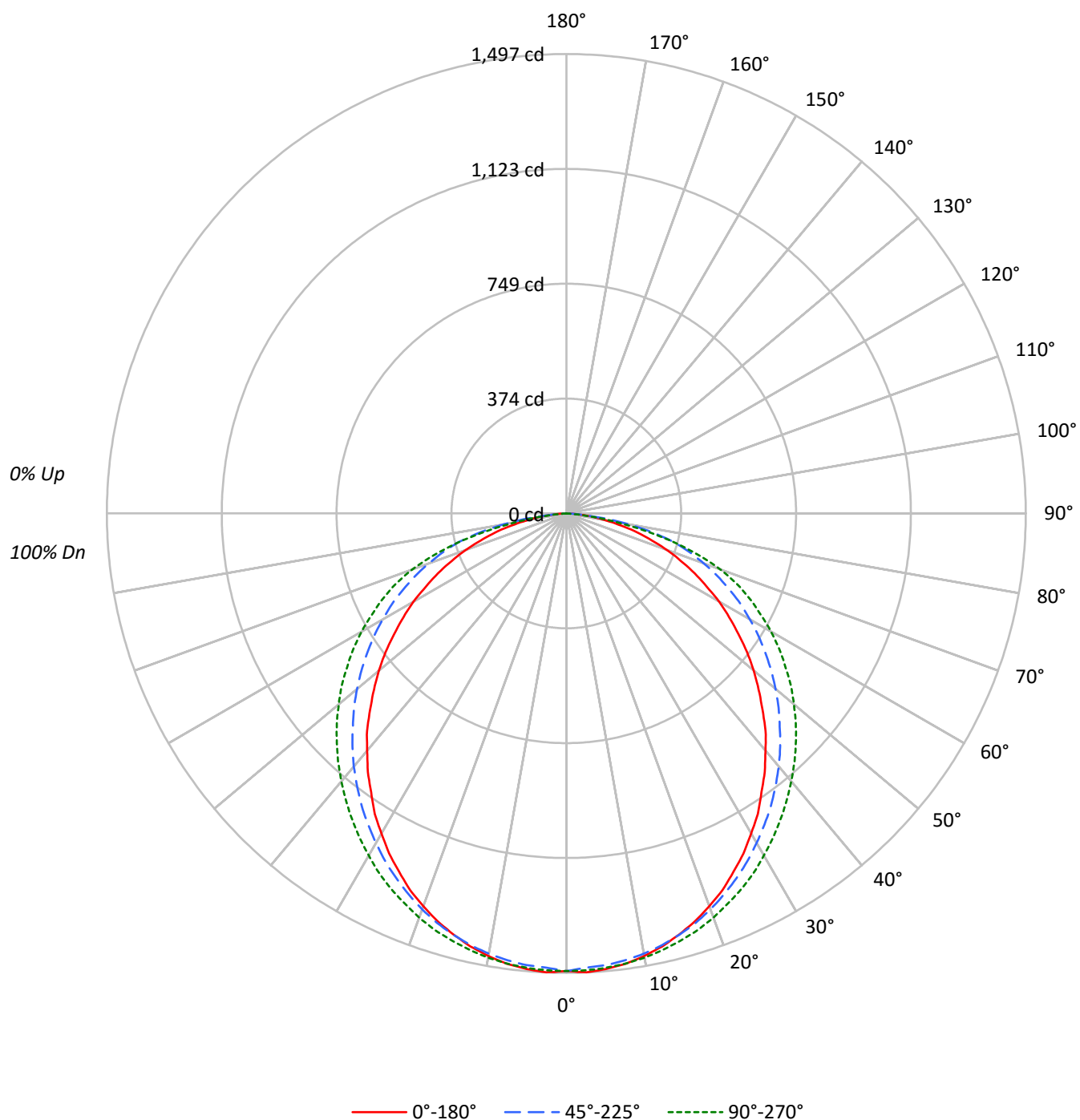
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4012	4012	4012
5°	4025	3991	4015
10°	4000	3979	4016
15°	3958	3960	4014
20°	3899	3933	4013
25°	3825	3894	4009
30°	3742	3853	4000
35°	3642	3820	3998
40°	3546	3783	4004
45°	3438	3742	4025
50°	3337	3725	4052
55°	3210	3712	4088
60°	3096	3719	4145
65°	2937	3730	4209
70°	2756	3758	4206
75°	2498	3793	3803
80°	2049	3274	2707
85°	1519	1550	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.3
10°-20°	403.0	9.3
20°-30°	607.1	14.0
30°-40°	728.6	16.8
40°-50°	759.4	17.5
50°-60°	703.0	16.2
60°-70°	568.0	13.1
70°-80°	346.3	8.0
80°-90°	71.5	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°	1151.3	26.6
0°-40°	1879.8	43.4
0°-60°	3342.2	77.2
0°-90°	4328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1490	1486	1478	1488	1486	141
15°	1421	1422	1422	1441	1441	400
25°	1288	1296	1312	1344	1350	594
35°	1109	1126	1163	1205	1217	695
45°	903	930	983	1038	1058	698
55°	684	720	791	853	871	613
65°	461	507	586	645	661	456
75°	240	293	365	371	366	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°	1491.0	1491.0	1491.0	1491.0	1491.0
2.5°	1496.8	1492.0	1481.4	1492.0	1490.0
5°	1490.0	1486.2	1477.5	1488.1	1486.2
7.5°	1480.4	1476.5	1468.8	1481.4	1479.4
10°	1464.0	1462.1	1456.3	1470.7	1469.8
12.5°	1444.7	1443.7	1440.8	1457.2	1456.3
15°	1420.6	1421.5	1421.5	1440.8	1440.8
17.5°	1393.5	1395.5	1399.3	1420.6	1423.5
20°	1361.7	1365.6	1373.3	1397.4	1401.3
22.5°	1328.9	1331.8	1343.4	1372.3	1376.2
25°	1288.3	1296.1	1311.5	1344.3	1350.1
27.5°	1249.7	1256.5	1277.7	1311.5	1321.2
30°	1204.4	1215.0	1240.1	1276.8	1287.4
32.5°	1161.0	1172.5	1201.5	1244.0	1253.6
35°	1108.8	1126.2	1162.9	1205.4	1216.9
37.5°	1061.6	1078.0	1119.5	1165.8	1179.3
40°	1009.4	1029.7	1077.0	1126.2	1139.7
42.5°	961.2	980.5	1031.6	1081.8	1100.2
45°	903.3	930.3	983.4	1038.4	1057.7
47.5°	850.2	877.2	938.0	996.9	1014.3
50°	797.1	826.1	889.8	950.6	968.0
52.5°	742.1	773.0	841.5	902.3	922.6
55°	684.2	719.9	791.3	853.1	871.4
57.5°	629.2	665.9	742.1	804.9	823.2
60°	575.2	612.8	691.0	750.8	770.1
62.5°	515.3	559.7	640.8	699.7	714.1
65°	461.3	506.7	585.8	644.7	661.1
67.5°	404.4	453.6	532.7	586.8	602.2
70°	350.3	401.5	477.7	527.9	534.6
72.5°	292.4	344.5	421.7	453.6	453.6
75°	240.3	293.4	364.8	370.6	365.8
77.5°	183.4	242.2	288.6	277.0	265.4
80°	132.2	190.1	211.3	190.1	174.7
82.5°	88.8	138.0	127.4	101.3	89.8
85°	49.2	73.3	50.2	28.0	20.3
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)