

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: P308041

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CP125-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: P308041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
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-S-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 4288.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

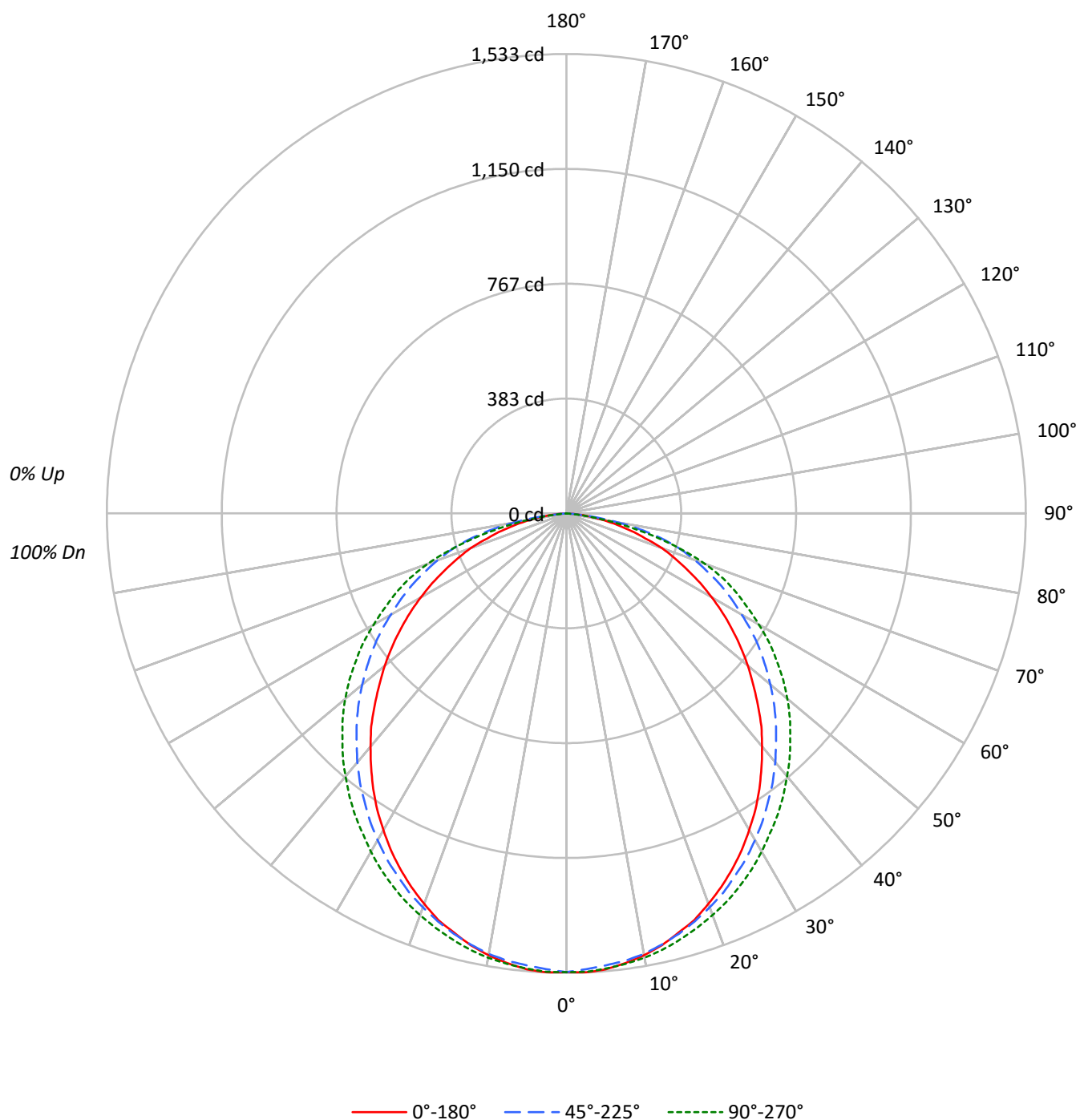
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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	94	91	89	90	88	86	84		
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4119	4119	4119
5°	4123	4089	4118
10°	4090	4078	4113
15°	4033	4045	4099
20°	3970	4006	4085
25°	3888	3958	4072
30°	3792	3911	4050
35°	3688	3855	4037
40°	3570	3809	4025
45°	3439	3762	4021
50°	3311	3720	4032
55°	3172	3690	4020
60°	3021	3639	3993
65°	2843	3628	3994
70°	2677	3596	3880
75°	2321	3514	3316
80°	1878	2833	2207
85°	1247	985	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.4
10°-20°	411.3	9.6
20°-30°	617.0	14.4
30°-40°	736.0	17.2
40°-50°	760.9	17.7
50°-60°	694.7	16.2
60°-70°	546.7	12.7
70°-80°	318.2	7.4
80°-90°	58.6	1.4
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°	1172.9	27.4
0°-40°	1908.9	44.5
0°-60°	3364.5	78.5
0°-90°	4288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1526	1522	1514	1526	1524	145
15°	1448	1450	1452	1471	1471	409
25°	1310	1316	1333	1365	1371	603
35°	1122	1137	1174	1218	1229	702
45°	904	933	989	1044	1057	698
55°	676	712	787	844	857	605
65°	446	493	570	614	627	443
75°	223	276	338	332	319	237
85°	40	57	32	26	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.7	1530.7	1530.7	1530.7	1530.7
2.5°	1532.9	1528.6	1522.2	1532.9	1530.7
5°	1526.5	1522.2	1513.7	1526.5	1524.4
7.5°	1513.7	1509.5	1505.2	1518.0	1515.9
10°	1496.7	1494.6	1492.5	1507.4	1505.2
12.5°	1475.5	1475.5	1473.3	1490.4	1490.4
15°	1447.8	1450.0	1452.1	1471.2	1471.2
17.5°	1422.3	1420.2	1426.6	1447.8	1450.0
20°	1386.2	1390.4	1398.9	1424.4	1426.6
22.5°	1350.0	1354.3	1369.2	1394.7	1401.1
25°	1309.6	1316.0	1333.0	1364.9	1371.3
27.5°	1267.1	1275.6	1299.0	1333.0	1339.4
30°	1220.3	1233.1	1258.6	1296.9	1303.3
32.5°	1173.6	1186.3	1218.2	1256.5	1265.0
35°	1122.5	1137.4	1173.6	1218.2	1228.8
37.5°	1069.4	1088.5	1131.1	1175.7	1188.5
40°	1016.2	1037.5	1084.3	1131.1	1145.9
42.5°	963.1	984.4	1035.4	1088.5	1103.4
45°	903.6	933.3	988.6	1043.9	1056.6
47.5°	846.2	878.1	939.7	995.0	1012.0
50°	790.9	822.8	888.7	946.1	963.1
52.5°	733.5	767.5	837.7	897.2	912.1
55°	676.1	712.2	786.6	844.0	856.8
57.5°	618.7	656.9	733.5	788.8	803.6
60°	561.3	601.7	676.1	731.4	742.0
62.5°	503.9	546.4	622.9	671.8	682.5
65°	446.5	493.2	569.8	614.4	627.2
67.5°	391.2	438.0	512.4	554.9	565.5
70°	340.2	382.7	457.1	489.0	493.2
72.5°	276.4	329.5	401.8	418.8	408.2
75°	223.2	276.4	338.0	331.7	318.9
77.5°	170.1	223.2	263.6	242.4	225.4
80°	121.2	174.3	182.8	150.9	142.4
82.5°	78.7	121.2	102.0	78.7	63.8
85°	40.4	57.4	31.9	25.5	21.3
87.5°	12.8	8.5	4.3	4.3	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)