

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: P307986

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-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: P307986
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: 14FCZ2-39-UNV-L82765-S-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 3902.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

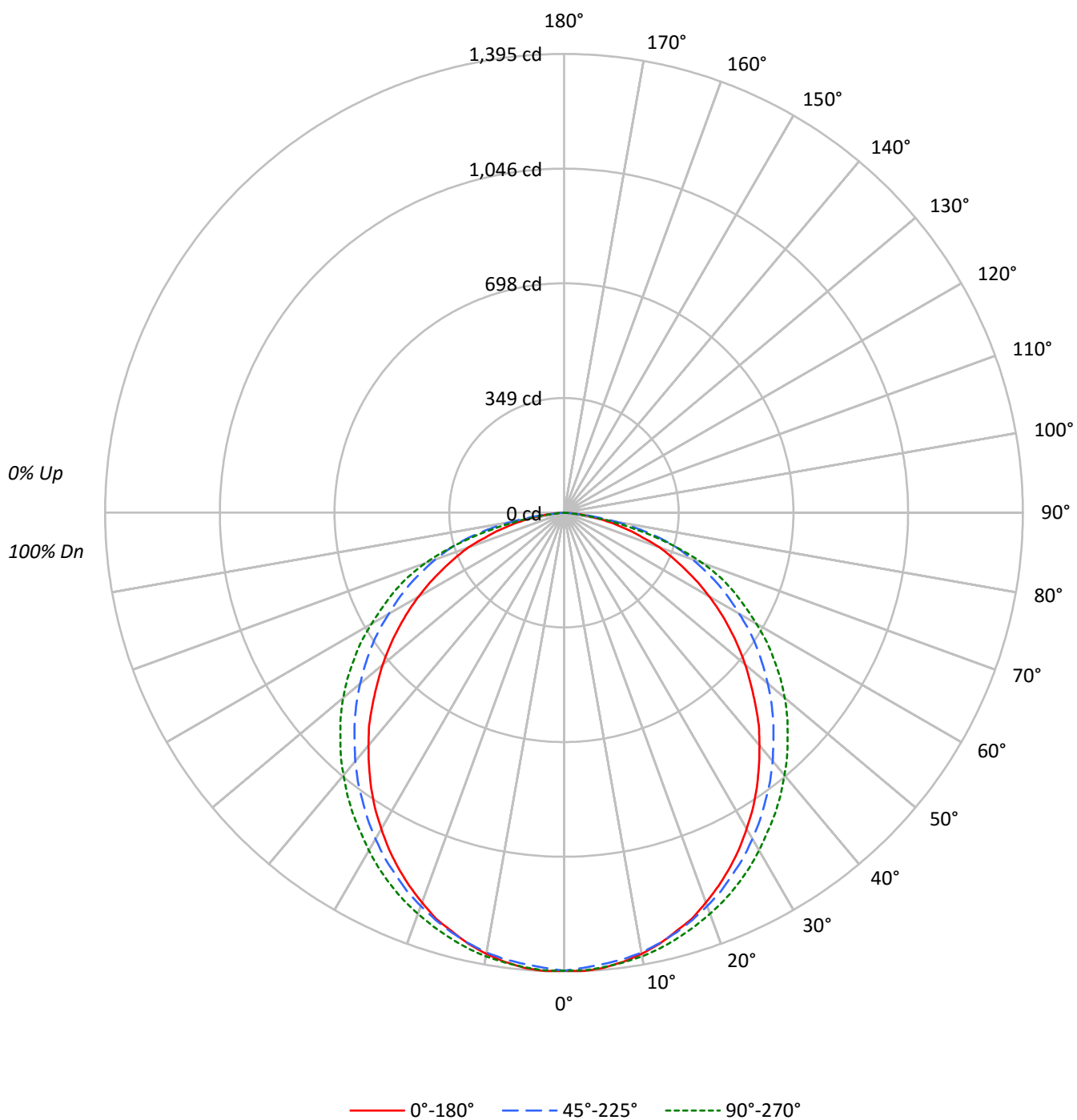
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3748	3748	3748
5°	3752	3721	3747
10°	3722	3711	3743
15°	3670	3681	3730
20°	3612	3645	3718
25°	3538	3602	3705
30°	3451	3559	3685
35°	3356	3508	3673
40°	3249	3466	3663
45°	3129	3424	3659
50°	3013	3386	3669
55°	2886	3358	3658
60°	2749	3311	3634
65°	2587	3301	3634
70°	2435	3273	3531
75°	2112	3198	3017
80°	1709	2579	2008
85°	1136	895	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.4
10°-20°	374.3	9.6
20°-30°	561.4	14.4
30°-40°	669.8	17.2
40°-50°	692.4	17.7
50°-60°	632.2	16.2
60°-70°	497.5	12.7
70°-80°	289.6	7.4
80°-90°	53.4	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°	1067.3	27.4
0°-40°	1737.0	44.5
0°-60°	3061.6	78.5
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1389	1385	1378	1389	1387	132
15°	1318	1319	1321	1339	1339	372
25°	1192	1198	1213	1242	1248	549
35°	1022	1035	1068	1109	1118	638
45°	822	849	900	950	962	635
55°	615	648	716	768	780	550
65°	406	449	518	559	571	403
75°	203	252	308	302	290	216
85°	37	52	29	23	19	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.9	1392.9	1392.9	1392.9	1392.9
2.5°	1394.9	1391.0	1385.2	1394.9	1392.9
5°	1389.1	1385.2	1377.5	1389.1	1387.1
7.5°	1377.5	1373.6	1369.7	1381.3	1379.4
10°	1362.0	1360.1	1358.1	1371.7	1369.7
12.5°	1342.6	1342.6	1340.7	1356.2	1356.2
15°	1317.5	1319.4	1321.4	1338.8	1338.8
17.5°	1294.3	1292.3	1298.2	1317.5	1319.4
20°	1261.4	1265.3	1273.0	1296.2	1298.2
22.5°	1228.5	1232.4	1245.9	1269.1	1274.9
25°	1191.7	1197.5	1213.0	1242.0	1247.9
27.5°	1153.1	1160.8	1182.1	1213.0	1218.8
30°	1110.5	1122.1	1145.3	1180.1	1185.9
32.5°	1067.9	1079.5	1108.6	1143.4	1151.1
35°	1021.5	1035.0	1067.9	1108.6	1118.2
37.5°	973.1	990.5	1029.2	1069.9	1081.5
40°	924.8	944.1	986.7	1029.2	1042.8
42.5°	876.4	895.7	942.2	990.5	1004.1
45°	822.2	849.3	899.6	949.9	961.5
47.5°	770.0	799.0	855.1	905.4	920.9
50°	719.7	748.7	808.7	860.9	876.4
52.5°	667.5	698.4	762.3	816.4	830.0
55°	615.2	648.1	715.8	768.1	779.7
57.5°	563.0	597.8	667.5	717.8	731.3
60°	510.7	547.5	615.2	665.5	675.2
62.5°	458.5	497.2	566.9	611.3	621.0
65°	406.3	448.8	518.5	559.1	570.7
67.5°	356.0	398.5	466.3	504.9	514.6
70°	309.5	348.2	416.0	445.0	448.8
72.5°	251.5	299.9	365.6	381.1	371.5
75°	203.1	251.5	307.6	301.8	290.2
77.5°	154.8	203.1	239.9	220.6	205.1
80°	110.3	158.6	166.4	137.4	129.6
82.5°	71.6	110.3	92.9	71.6	58.0
85°	36.8	52.2	29.0	23.2	19.3
87.5°	11.6	7.7	3.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)