

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: P308028

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CA125-W2A-U-4500K**

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: P308028
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-CA125-W2A-U-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 4500K 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: 4251.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

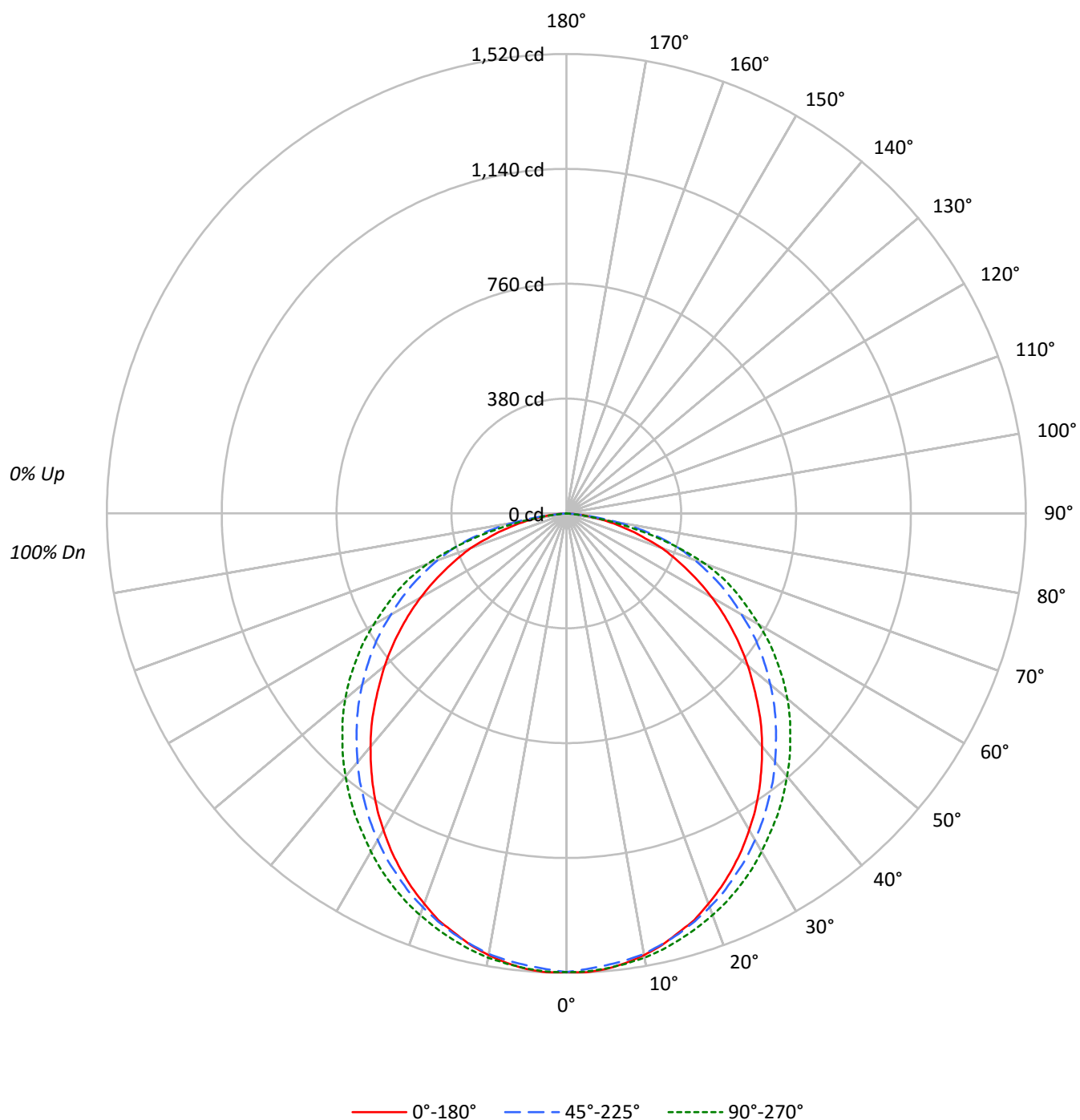
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4084	4084	4084
5°	4088	4054	4082
10°	4054	4043	4077
15°	3999	4011	4063
20°	3935	3972	4050
25°	3855	3924	4037
30°	3759	3877	4015
35°	3656	3822	4002
40°	3539	3776	3991
45°	3409	3730	3986
50°	3283	3688	3997
55°	3144	3658	3985
60°	2995	3607	3959
65°	2818	3597	3959
70°	2653	3566	3847
75°	2301	3484	3288
80°	1861	2810	2188
85°	1235	976	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.4
10°-20°	407.8	9.6
20°-30°	611.7	14.4
30°-40°	729.7	17.2
40°-50°	754.3	17.7
50°-60°	688.7	16.2
60°-70°	542.0	12.7
70°-80°	315.5	7.4
80°-90°	58.1	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°	1162.7	27.4
0°-40°	1892.4	44.5
0°-60°	3335.4	78.5
0°-90°	4251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1513	1509	1501	1513	1511	143
15°	1435	1437	1440	1458	1458	405
25°	1298	1305	1322	1353	1360	598
35°	1113	1128	1163	1208	1218	696
45°	896	925	980	1035	1048	692
55°	670	706	780	837	849	599
65°	443	489	565	609	622	439
75°	221	274	335	329	316	235
85°	40	57	32	25	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.5	1517.5	1517.5	1517.5	1517.5
2.5°	1519.6	1515.4	1509.1	1519.6	1517.5
5°	1513.3	1509.1	1500.7	1513.3	1511.2
7.5°	1500.7	1496.5	1492.2	1504.9	1502.8
10°	1483.8	1481.7	1479.6	1494.4	1492.2
12.5°	1462.7	1462.7	1460.6	1477.5	1477.5
15°	1435.3	1437.4	1439.6	1458.5	1458.5
17.5°	1410.0	1407.9	1414.3	1435.3	1437.4
20°	1374.2	1378.4	1386.9	1412.2	1414.3
22.5°	1338.4	1342.6	1357.4	1382.6	1389.0
25°	1298.3	1304.7	1321.5	1353.1	1359.5
27.5°	1256.2	1264.6	1287.8	1321.5	1327.8
30°	1209.8	1222.5	1247.8	1285.7	1292.0
32.5°	1163.4	1176.1	1207.7	1245.6	1254.1
35°	1112.9	1127.6	1163.4	1207.7	1218.2
37.5°	1060.2	1079.1	1121.3	1165.6	1178.2
40°	1007.5	1028.6	1074.9	1121.3	1136.0
42.5°	954.8	975.9	1026.4	1079.1	1093.9
45°	895.8	925.3	980.1	1034.9	1047.5
47.5°	838.9	870.5	931.6	986.4	1003.3
50°	784.1	815.7	881.0	937.9	954.8
52.5°	727.2	760.9	830.4	889.4	904.2
55°	670.2	706.1	779.8	836.8	849.4
57.5°	613.3	651.3	727.2	782.0	796.7
60°	556.4	596.5	670.2	725.0	735.6
62.5°	499.5	541.7	617.6	666.0	676.6
65°	442.6	489.0	564.9	609.1	621.8
67.5°	387.8	434.2	508.0	550.1	560.6
70°	337.2	379.4	453.2	484.8	489.0
72.5°	274.0	326.7	398.4	415.2	404.7
75°	221.3	274.0	335.1	328.8	316.2
77.5°	168.6	221.3	261.4	240.3	223.4
80°	120.1	172.8	181.3	149.6	141.2
82.5°	78.0	120.1	101.2	78.0	63.2
85°	40.0	56.9	31.6	25.3	21.1
87.5°	12.6	8.4	4.2	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)