

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: P308056

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CP250-W2A-U-5000K**

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: P308056
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-CP250-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB SHEET
Light Source: (168) 5000K 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: 4013.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

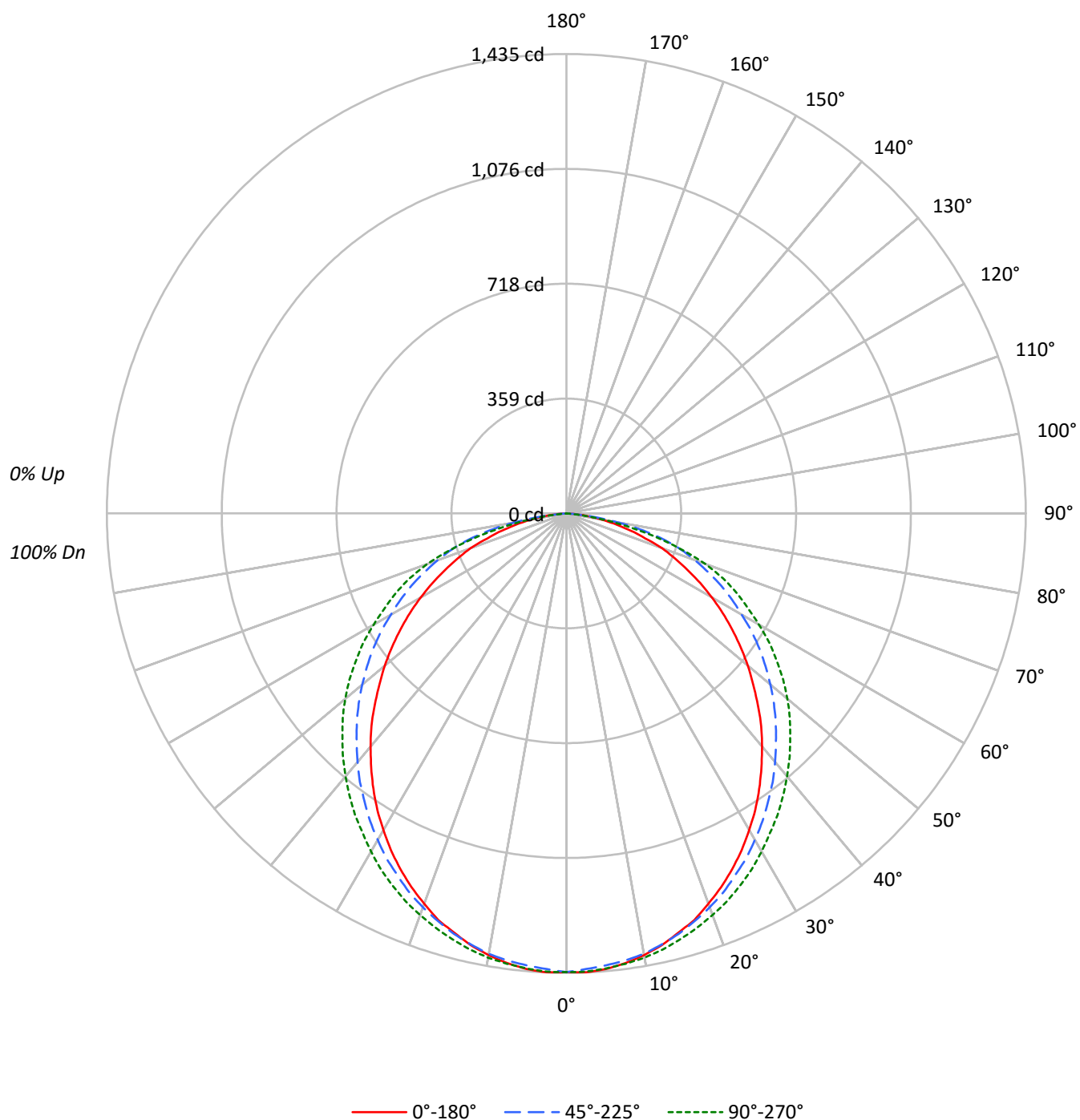
Input Watts (W): 39.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3855	3855	3855
5°	3859	3827	3854
10°	3827	3817	3849
15°	3775	3786	3836
20°	3715	3749	3823
25°	3639	3704	3810
30°	3549	3660	3790
35°	3451	3608	3778
40°	3341	3564	3767
45°	3218	3521	3763
50°	3099	3482	3773
55°	2968	3454	3762
60°	2827	3405	3737
65°	2660	3395	3738
70°	2504	3366	3632
75°	2172	3290	3104
80°	1757	2651	2066
85°	1167	920	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.4
10°-20°	384.9	9.6
20°-30°	577.4	14.4
30°-40°	688.8	17.2
40°-50°	712.1	17.7
50°-60°	650.1	16.2
60°-70°	511.6	12.7
70°-80°	297.8	7.4
80°-90°	54.9	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°	1097.6	27.4
0°-40°	1786.4	44.5
0°-60°	3148.7	78.5
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1429	1425	1417	1429	1427	135
15°	1355	1357	1359	1377	1377	382
25°	1226	1232	1248	1277	1283	564
35°	1051	1064	1098	1140	1150	657
45°	846	874	925	977	989	653
55°	633	666	736	790	802	566
65°	418	462	533	575	587	415
75°	209	259	316	310	298	222
85°	38	54	30	24	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1434.6	1430.6	1424.6	1434.6	1432.6
5°	1428.6	1424.6	1416.7	1428.6	1426.6
7.5°	1416.7	1412.7	1408.7	1420.6	1418.6
10°	1400.7	1398.7	1396.8	1410.7	1408.7
12.5°	1380.8	1380.8	1378.9	1394.8	1394.8
15°	1355.0	1357.0	1359.0	1376.9	1376.9
17.5°	1331.1	1329.1	1335.1	1355.0	1357.0
20°	1297.3	1301.3	1309.2	1333.1	1335.1
22.5°	1263.5	1267.4	1281.4	1305.2	1311.2
25°	1225.6	1231.6	1247.5	1277.4	1283.3
27.5°	1185.9	1193.8	1215.7	1247.5	1253.5
30°	1142.1	1154.0	1177.9	1213.7	1219.7
32.5°	1098.3	1110.2	1140.1	1175.9	1183.9
35°	1050.6	1064.5	1098.3	1140.1	1150.0
37.5°	1000.8	1018.7	1058.5	1100.3	1112.2
40°	951.1	971.0	1014.7	1058.5	1072.4
42.5°	901.3	921.2	969.0	1018.7	1032.6
45°	845.6	873.5	925.2	976.9	988.9
47.5°	791.9	821.7	879.4	931.2	947.1
50°	740.2	770.0	831.7	885.4	901.3
52.5°	686.4	718.3	783.9	839.6	853.6
55°	632.7	666.5	736.2	789.9	801.8
57.5°	579.0	614.8	686.4	738.2	752.1
60°	525.3	563.1	632.7	684.5	694.4
62.5°	471.6	511.3	583.0	628.7	638.7
65°	417.8	461.6	533.2	575.0	587.0
67.5°	366.1	409.9	479.5	519.3	529.3
70°	318.3	358.1	427.8	457.6	461.6
72.5°	258.7	308.4	376.1	392.0	382.0
75°	208.9	258.7	316.4	310.4	298.5
77.5°	159.2	208.9	246.7	226.8	210.9
80°	113.4	163.2	171.1	141.3	133.3
82.5°	73.6	113.4	95.5	73.6	59.7
85°	37.8	53.7	29.8	23.9	19.9
87.5°	11.9	8.0	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)