

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: P308025

Luminaire Tested: **14FCZ2-44-UNV-L82765-S-CA125-W2A-U-3000K**

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: P308025
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-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3000K 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: 3950.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

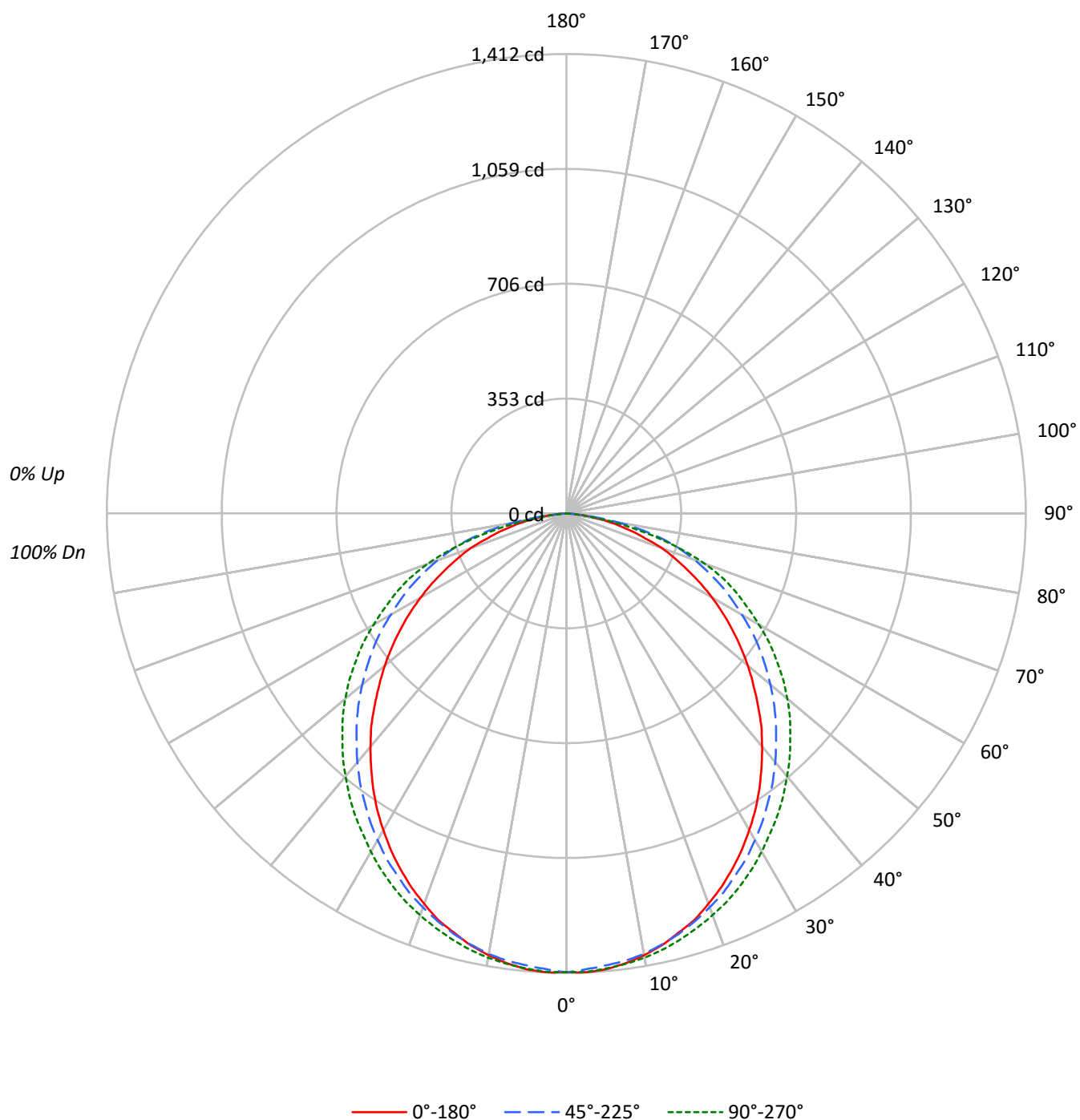
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3795	3795	3795
5°	3799	3767	3793
10°	3767	3757	3789
15°	3716	3726	3775
20°	3657	3690	3763
25°	3582	3646	3751
30°	3493	3603	3730
35°	3397	3551	3719
40°	3288	3509	3708
45°	3167	3466	3704
50°	3050	3427	3714
55°	2922	3400	3703
60°	2782	3352	3679
65°	2619	3342	3678
70°	2466	3313	3575
75°	2138	3238	3055
80°	1729	2610	2033
85°	1149	908	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.4
10°-20°	378.9	9.6
20°-30°	568.4	14.4
30°-40°	678.0	17.2
40°-50°	700.9	17.7
50°-60°	639.9	16.2
60°-70°	503.6	12.7
70°-80°	293.1	7.4
80°-90°	54.0	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°	1080.4	27.4
0°-40°	1758.4	44.5
0°-60°	3099.2	78.5
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1406	1402	1394	1406	1404	133
15°	1334	1336	1338	1355	1355	376
25°	1206	1212	1228	1257	1263	555
35°	1034	1048	1081	1122	1132	646
45°	832	860	911	962	973	643
55°	623	656	725	778	789	557
65°	411	454	525	566	578	408
75°	206	255	311	306	294	219
85°	37	53	29	24	20	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1412.0	1408.1	1402.3	1412.0	1410.1
5°	1406.2	1402.3	1394.4	1406.2	1404.2
7.5°	1394.4	1390.5	1386.6	1398.3	1396.4
10°	1378.7	1376.8	1374.8	1388.5	1386.6
12.5°	1359.2	1359.2	1357.2	1372.9	1372.9
15°	1333.7	1335.7	1337.6	1355.2	1355.2
17.5°	1310.2	1308.2	1314.1	1333.7	1335.7
20°	1276.9	1280.8	1288.7	1312.2	1314.1
22.5°	1243.6	1247.5	1261.2	1284.7	1290.6
25°	1206.4	1212.3	1227.9	1257.3	1263.2
27.5°	1167.2	1175.1	1196.6	1227.9	1233.8
30°	1124.2	1135.9	1159.4	1194.7	1200.5
32.5°	1081.1	1092.8	1122.2	1157.4	1165.3
35°	1034.1	1047.8	1081.1	1122.2	1132.0
37.5°	985.1	1002.7	1041.9	1083.0	1094.8
40°	936.1	955.7	998.8	1041.9	1055.6
42.5°	887.2	906.8	953.8	1002.7	1016.4
45°	832.3	859.8	910.7	961.6	973.3
47.5°	779.5	808.8	865.6	916.6	932.2
50°	728.5	757.9	818.6	871.5	887.2
52.5°	675.7	707.0	771.6	826.5	840.2
55°	622.8	656.1	724.6	777.5	789.3
57.5°	569.9	605.2	675.7	726.6	740.3
60°	517.0	554.2	622.8	673.7	683.5
62.5°	464.2	503.3	573.8	618.9	628.7
65°	411.3	454.4	524.9	566.0	577.7
67.5°	360.4	403.4	472.0	511.2	520.9
70°	313.4	352.5	421.1	450.4	454.4
72.5°	254.6	303.6	370.1	385.8	376.0
75°	205.6	254.6	311.4	305.5	293.8
77.5°	156.7	205.6	242.8	223.3	207.6
80°	111.6	160.6	168.4	139.0	131.2
82.5°	72.5	111.6	94.0	72.5	58.8
85°	37.2	52.9	29.4	23.5	19.6
87.5°	11.8	7.8	3.9	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)