

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: P307771

Luminaire Tested: **14FCZ2-44-UNV-L82765-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: P307771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
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-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED 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: 4244.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

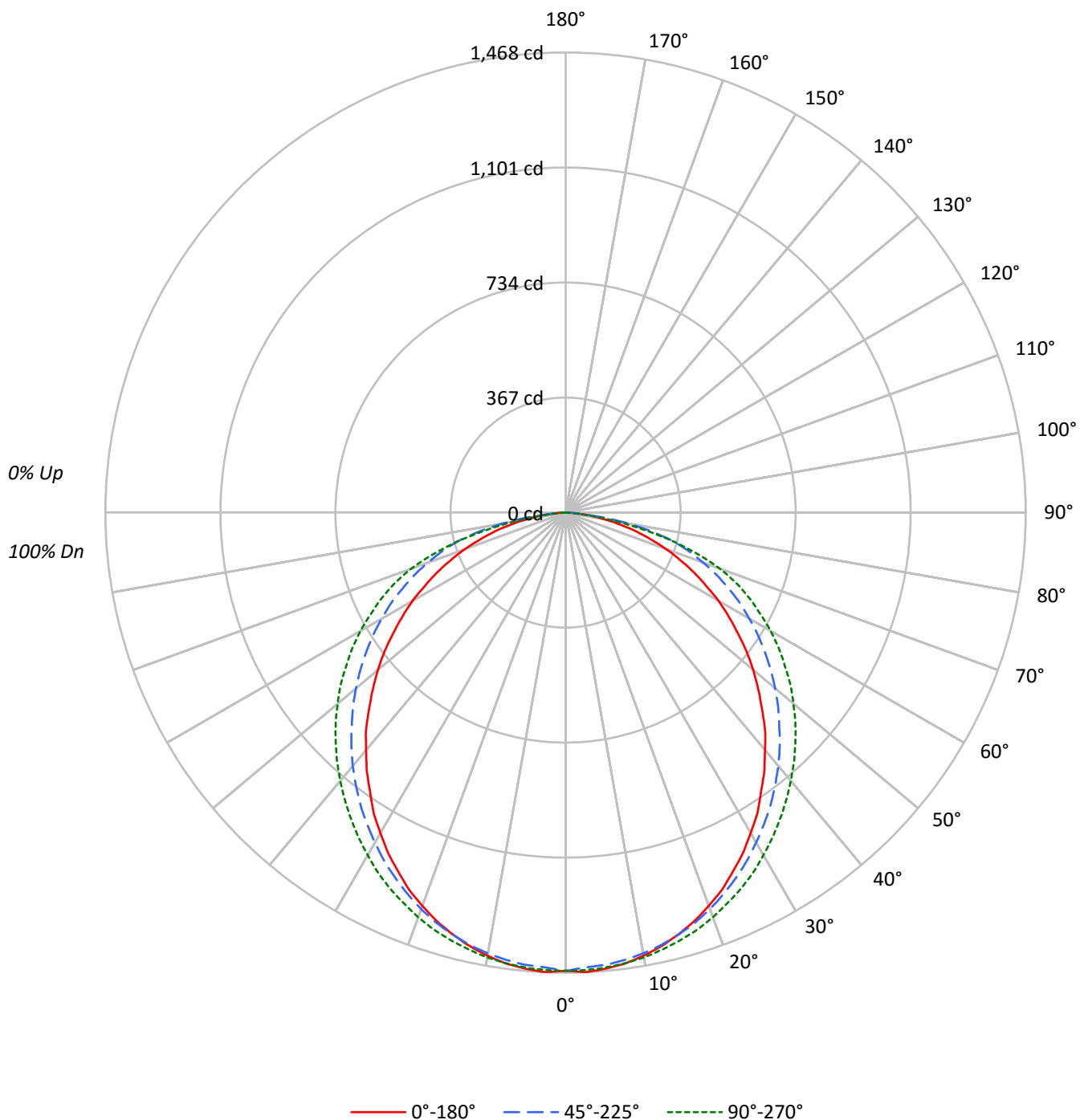
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3947	3914	3937
10°	3923	3902	3938
15°	3881	3883	3936
20°	3824	3856	3935
25°	3751	3819	3931
30°	3670	3778	3923
35°	3572	3746	3920
40°	3477	3710	3926
45°	3371	3670	3947
50°	3273	3653	3974
55°	3148	3641	4009
60°	3035	3647	4064
65°	2880	3657	4127
70°	2703	3685	4125
75°	2450	3719	3729
80°	2008	3211	2655
85°	1491	1519	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.3
10°-20°	395.2	9.3
20°-30°	595.3	14.0
30°-40°	714.4	16.8
40°-50°	744.6	17.5
50°-60°	689.4	16.2
60°-70°	557.0	13.1
70°-80°	339.6	8.0
80°-90°	70.1	1.7
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°	1128.9	26.6
0°-40°	1843.3	43.4
0°-60°	3277.3	77.2
0°-90°	4244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1461	1457	1449	1459	1457	139
15°	1393	1394	1394	1413	1413	393
25°	1263	1271	1286	1318	1324	582
35°	1087	1104	1140	1182	1193	681
45°	886	912	964	1018	1037	685
55°	671	706	776	837	854	601
65°	452	497	574	632	648	447
75°	236	288	358	363	359	247
85°	48	72	49	27	20	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1467.7	1463.0	1452.6	1463.0	1461.1
5°	1461.1	1457.3	1448.8	1459.2	1457.3
7.5°	1451.7	1447.9	1440.3	1452.6	1450.7
10°	1435.6	1433.7	1428.0	1442.2	1441.3
12.5°	1416.6	1415.7	1412.9	1429.0	1428.0
15°	1393.0	1393.9	1393.9	1412.9	1412.9
17.5°	1366.5	1368.4	1372.2	1393.0	1395.8
20°	1335.3	1339.0	1346.6	1370.3	1374.1
22.5°	1303.1	1305.9	1317.3	1345.7	1349.5
25°	1263.3	1270.9	1286.1	1318.2	1323.9
27.5°	1225.5	1232.1	1252.9	1286.1	1295.5
30°	1181.0	1191.4	1216.0	1252.0	1262.4
32.5°	1138.4	1149.8	1178.2	1219.8	1229.3
35°	1087.3	1104.4	1140.3	1182.0	1193.3
37.5°	1041.0	1057.0	1097.7	1143.2	1156.4
40°	989.9	1009.7	1056.1	1104.4	1117.6
42.5°	942.5	961.5	1011.6	1060.8	1078.8
45°	885.8	912.3	964.3	1018.2	1037.2
47.5°	833.7	860.2	919.8	977.6	994.6
50°	781.7	810.1	872.5	932.1	949.2
52.5°	727.7	758.0	825.2	884.8	904.7
55°	670.9	706.0	776.0	836.6	854.5
57.5°	617.0	653.0	727.7	789.2	807.2
60°	564.0	600.9	677.6	736.2	755.2
62.5°	505.3	548.9	628.4	686.1	700.3
65°	452.3	496.8	574.4	632.1	648.2
67.5°	396.5	444.8	522.4	575.4	590.5
70°	343.5	393.7	468.4	517.6	524.3
72.5°	286.7	337.8	413.5	444.8	444.8
75°	235.6	287.7	357.7	363.4	358.7
77.5°	179.8	237.5	283.0	271.6	260.2
80°	129.6	186.4	207.2	186.4	171.3
82.5°	87.1	135.3	124.9	99.4	88.0
85°	48.3	71.9	49.2	27.4	19.9
87.5°	18.0	16.1	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)