

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: P307987

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CA125-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: P307987
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-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 3913.0 lumens
Efficiency: N/A
Efficacy: 112.4 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

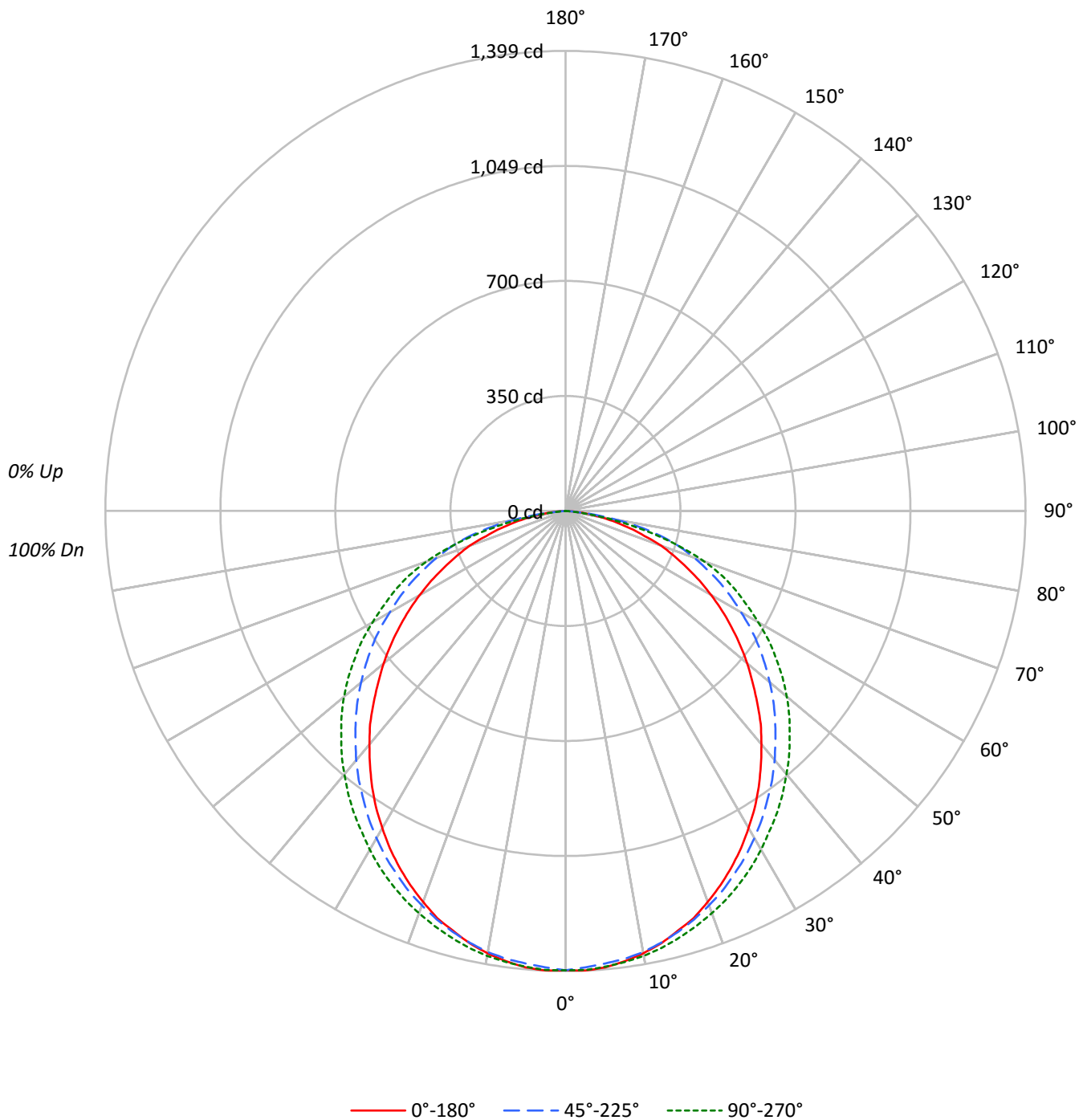
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3759	3759	3759
5°	3763	3732	3758
10°	3732	3722	3753
15°	3681	3692	3740
20°	3622	3656	3728
25°	3548	3612	3716
30°	3460	3569	3695
35°	3365	3518	3684
40°	3258	3476	3673
45°	3138	3433	3669
50°	3021	3395	3679
55°	2895	3368	3668
60°	2757	3321	3644
65°	2594	3310	3644
70°	2442	3282	3541
75°	2118	3208	3026
80°	1714	2585	2015
85°	1139	898	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.4
10°-20°	375.3	9.6
20°-30°	563.0	14.4
30°-40°	671.6	17.2
40°-50°	694.3	17.7
50°-60°	633.9	16.2
60°-70°	498.9	12.7
70°-80°	290.4	7.4
80°-90°	53.5	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°	1070.3	27.4
0°-40°	1741.9	44.5
0°-60°	3070.2	78.5
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1393	1389	1381	1393	1391	132
15°	1321	1323	1325	1343	1343	373
25°	1195	1201	1216	1246	1251	550
35°	1024	1038	1071	1112	1121	640
45°	824	852	902	953	964	637
55°	617	650	718	770	782	552
65°	407	450	520	561	572	405
75°	204	252	308	303	291	217
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°	1396.9	1396.9	1396.9	1396.9	1396.9
2.5°	1398.8	1394.9	1389.1	1398.8	1396.9
5°	1393.0	1389.1	1381.4	1393.0	1391.1
7.5°	1381.4	1377.5	1373.6	1385.2	1383.3
10°	1365.8	1363.9	1362.0	1375.5	1373.6
12.5°	1346.4	1346.4	1344.5	1360.0	1360.0
15°	1321.2	1323.2	1325.1	1342.6	1342.6
17.5°	1297.9	1296.0	1301.8	1321.2	1323.2
20°	1264.9	1268.8	1276.6	1299.9	1301.8
22.5°	1232.0	1235.8	1249.4	1272.7	1278.5
25°	1195.1	1200.9	1216.4	1245.5	1251.4
27.5°	1156.3	1164.1	1185.4	1216.4	1222.3
30°	1113.6	1125.3	1148.5	1183.5	1189.3
32.5°	1070.9	1082.6	1111.7	1146.6	1154.4
35°	1024.4	1038.0	1070.9	1111.7	1121.4
37.5°	975.9	993.3	1032.1	1072.9	1084.5
40°	927.4	946.8	989.5	1032.1	1045.7
42.5°	878.9	898.3	944.8	993.3	1006.9
45°	824.5	851.7	902.1	952.6	964.2
47.5°	772.2	801.3	857.5	908.0	923.5
50°	721.7	750.8	811.0	863.3	878.9
52.5°	669.3	700.4	764.4	818.7	832.3
55°	617.0	649.9	717.8	770.2	781.9
57.5°	564.6	599.5	669.3	719.8	733.4
60°	512.2	549.0	617.0	667.4	677.1
62.5°	459.8	498.6	568.5	613.1	622.8
65°	407.4	450.1	519.9	560.7	572.3
67.5°	357.0	399.7	467.6	506.4	516.1
70°	310.4	349.2	417.1	446.2	450.1
72.5°	252.2	300.7	366.7	382.2	372.5
75°	203.7	252.2	308.5	302.7	291.0
77.5°	155.2	203.7	240.6	221.2	205.7
80°	110.6	159.1	166.8	137.7	130.0
82.5°	71.8	110.6	93.1	71.8	58.2
85°	36.9	52.4	29.1	23.3	19.4
87.5°	11.6	7.8	3.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)