

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: P307996

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-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: P307996
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-CP125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 3837.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

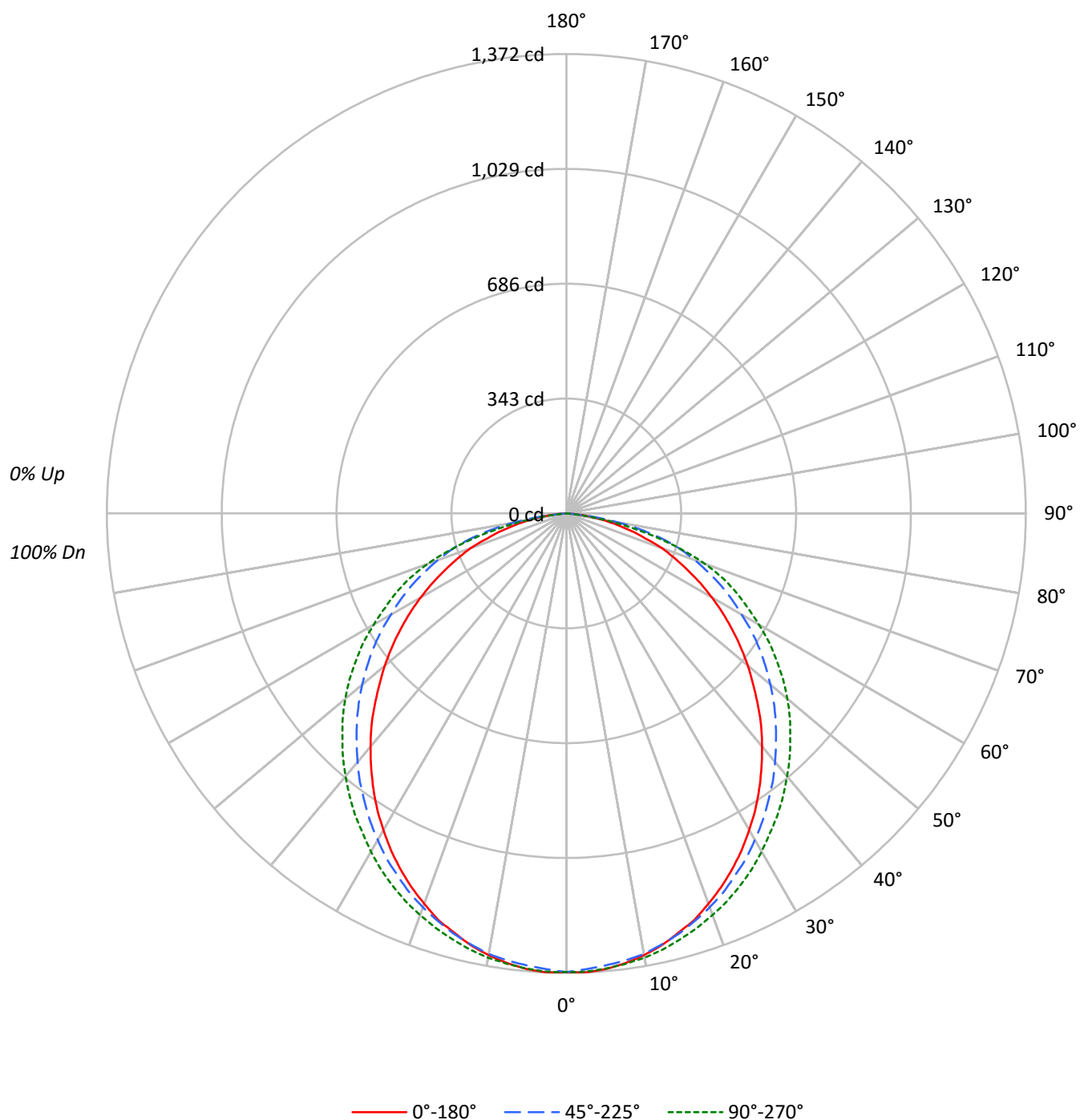
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3686	3686	3686
5°	3690	3659	3685
10°	3660	3649	3680
15°	3609	3620	3668
20°	3552	3585	3655
25°	3480	3542	3643
30°	3393	3499	3624
35°	3300	3450	3612
40°	3195	3408	3602
45°	3077	3366	3598
50°	2963	3329	3608
55°	2838	3302	3597
60°	2703	3256	3573
65°	2544	3246	3573
70°	2395	3218	3473
75°	2077	3145	2967
80°	1680	2535	1976
85°	1115	880	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.4
10°-20°	368.1	9.6
20°-30°	552.1	14.4
30°-40°	658.6	17.2
40°-50°	680.9	17.7
50°-60°	621.6	16.2
60°-70°	489.2	12.7
70°-80°	284.8	7.4
80°-90°	52.5	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°	1049.5	27.4
0°-40°	1708.1	44.5
0°-60°	3010.6	78.5
0°-90°	3837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1366	1362	1354	1366	1364	129
15°	1296	1298	1299	1316	1316	366
25°	1172	1178	1193	1221	1227	540
35°	1004	1018	1050	1090	1100	628
45°	808	835	885	934	946	624
55°	605	637	704	755	767	541
65°	400	441	510	550	561	397
75°	200	247	302	297	285	212
85°	36	51	28	23	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.7	1369.7	1369.7	1369.7	1369.7
2.5°	1371.6	1367.8	1362.1	1371.6	1369.7
5°	1365.9	1362.1	1354.5	1365.9	1364.0
7.5°	1354.5	1350.7	1346.9	1358.3	1356.4
10°	1339.3	1337.4	1335.5	1348.8	1346.9
12.5°	1320.3	1320.3	1318.4	1333.6	1333.6
15°	1295.6	1297.5	1299.4	1316.5	1316.5
17.5°	1272.7	1270.8	1276.5	1295.6	1297.5
20°	1240.4	1244.2	1251.8	1274.6	1276.5
22.5°	1208.0	1211.8	1225.2	1248.0	1253.7
25°	1171.9	1177.6	1192.8	1221.4	1227.1
27.5°	1133.8	1141.5	1162.4	1192.8	1198.5
30°	1092.0	1103.4	1126.2	1160.5	1166.2
32.5°	1050.1	1061.6	1090.1	1124.3	1131.9
35°	1004.5	1017.8	1050.1	1090.1	1099.6
37.5°	956.9	974.0	1012.1	1052.0	1063.5
40°	909.4	928.4	970.2	1012.1	1025.4
42.5°	861.8	880.8	926.5	974.0	987.4
45°	808.5	835.2	884.6	934.1	945.5
47.5°	757.2	785.7	840.9	890.3	905.6
50°	707.7	736.2	795.2	846.6	861.8
52.5°	656.3	686.8	749.6	802.8	816.1
55°	605.0	637.3	703.9	755.3	766.7
57.5°	553.6	587.8	656.3	705.8	719.1
60°	502.2	538.4	605.0	654.4	663.9
62.5°	450.9	488.9	557.4	601.2	610.7
65°	399.5	441.4	509.8	549.8	561.2
67.5°	350.0	391.9	458.5	496.5	506.0
70°	304.4	342.4	409.0	437.6	441.4
72.5°	247.3	294.9	359.6	374.8	365.3
75°	199.8	247.3	302.5	296.8	285.4
77.5°	152.2	199.8	235.9	216.9	201.7
80°	108.4	156.0	163.6	135.1	127.5
82.5°	70.4	108.4	91.3	70.4	57.1
85°	36.1	51.4	28.5	22.8	19.0
87.5°	11.4	7.6	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)