

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: P307061

Luminaire Tested: **14FCZ2-25-UNV-L82765-HRP-CP250-W2A-U-2700K**

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: P307061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-HRP-CP250-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"
POLYCARB SHEET
Light Source: (168) 2700K 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: 1514.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

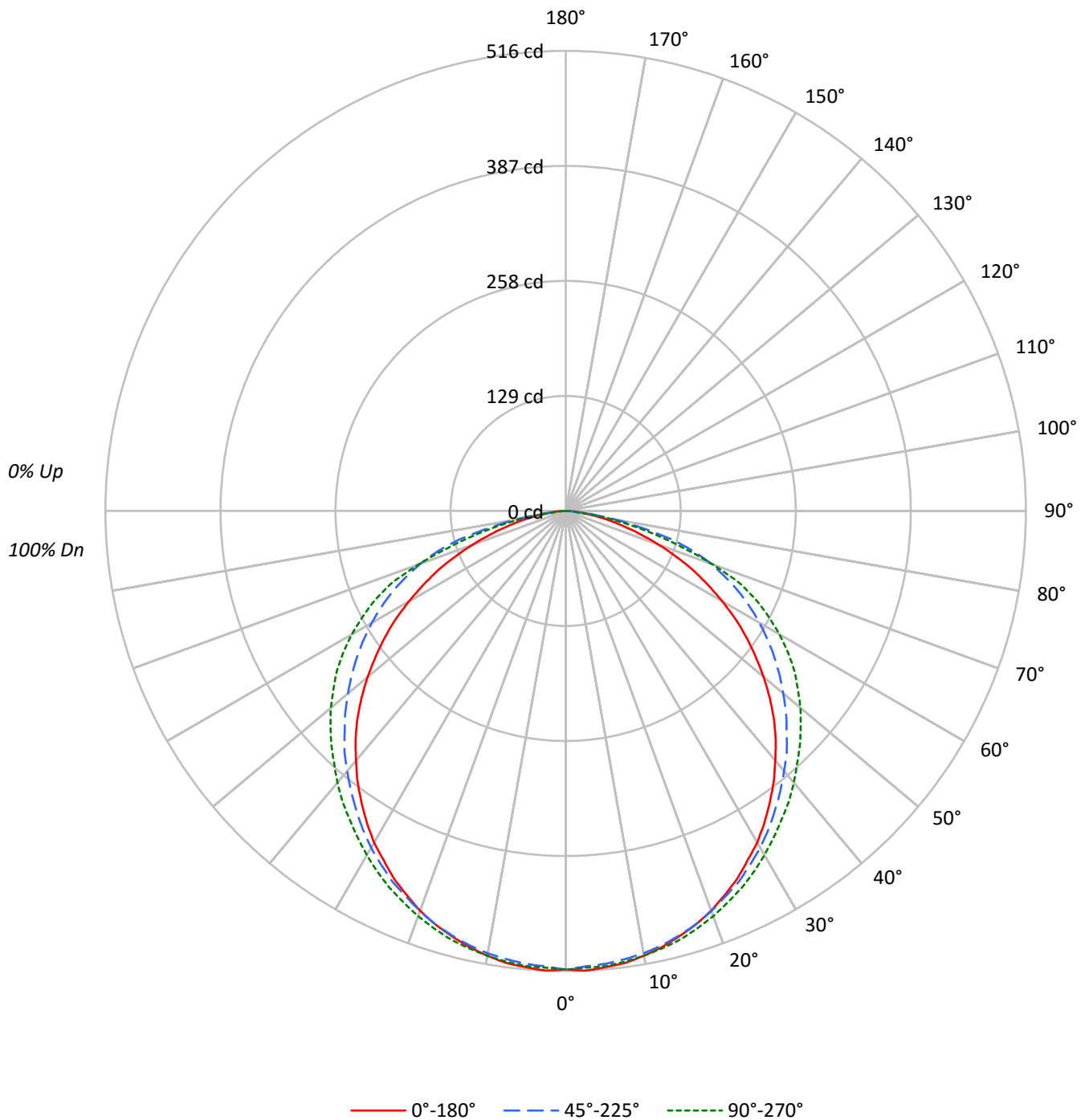
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		93	91	88		84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	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	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1384	1384	1384
5°	1388	1377	1384
10°	1384	1376	1384
15°	1375	1373	1386
20°	1366	1367	1385
25°	1351	1363	1385
30°	1334	1355	1385
35°	1311	1345	1387
40°	1284	1338	1398
45°	1257	1333	1413
50°	1214	1333	1439
55°	1162	1340	1470
60°	1091	1350	1489
65°	1007	1364	1498
70°	876	1367	1378
75°	723	1273	1114
80°	569	914	745
85°	442	352	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.2
10°-20°	139.7	9.2
20°-30°	212.1	14.0
30°-40°	257.0	17.0
40°-50°	270.8	17.9
50°-60°	252.8	16.7
60°-70°	202.1	13.3
70°-80°	111.2	7.3
80°-90°	19.6	1.3
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°	400.5	26.5
0°-40°	657.5	43.4
0°-60°	1181.1	78.0
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	514	512	510	513	512	49
15°	494	494	493	498	498	139
25°	455	456	459	466	467	210
35°	399	403	409	420	422	250
45°	330	337	350	366	371	254
55°	248	260	286	306	313	221
65°	158	178	214	232	235	156
75°	70	100	122	110	107	75
85°	14	18	11	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.2	514.2	514.2	514.2	514.2
2.5°	516.1	514.6	511.3	514.2	512.7
5°	513.7	512.3	509.9	513.2	512.3
7.5°	511.3	509.4	507.0	510.8	509.9
10°	506.5	505.1	503.7	507.0	506.5
12.5°	500.8	500.4	498.9	502.7	502.3
15°	493.7	493.7	492.7	497.5	497.5
17.5°	486.1	485.6	486.1	491.3	490.8
20°	477.0	477.0	477.5	483.7	483.7
22.5°	466.1	466.6	468.0	475.6	475.1
25°	455.1	456.1	458.9	465.6	466.6
27.5°	441.8	444.2	447.5	455.6	456.6
30°	429.4	430.8	436.1	443.7	445.6
32.5°	414.7	417.5	423.2	431.8	434.2
35°	399.0	402.8	409.4	419.9	422.3
37.5°	383.2	386.6	395.6	406.6	410.9
40°	365.6	371.3	380.9	393.2	398.0
42.5°	348.5	354.2	367.1	379.9	384.2
45°	330.4	336.6	350.4	366.1	371.3
47.5°	310.4	317.5	335.2	351.8	357.5
50°	289.9	299.0	318.5	337.1	343.7
52.5°	268.5	279.9	302.3	321.8	328.0
55°	247.6	259.9	285.6	305.6	313.3
57.5°	226.1	239.5	268.5	291.4	295.6
60°	202.8	219.0	250.9	270.9	276.6
62.5°	180.0	198.5	232.8	251.8	256.6
65°	158.1	178.1	214.2	231.8	235.2
67.5°	134.3	158.1	193.8	209.9	210.9
70°	111.4	139.0	173.8	181.4	175.2
72.5°	89.0	118.5	150.4	144.3	139.0
75°	69.5	99.5	122.4	110.0	107.1
77.5°	51.4	81.4	87.6	80.9	75.7
80°	36.7	64.3	59.0	50.5	48.1
82.5°	25.2	40.5	32.4	25.2	21.9
85°	14.3	18.1	11.4	7.1	5.7
87.5°	6.2	4.3	2.4	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)