

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: P307337

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP250-W2A-U-5500K**

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: P307337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
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-RDP-CP250-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET
Light Source: (168) 5500K 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: 1452.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

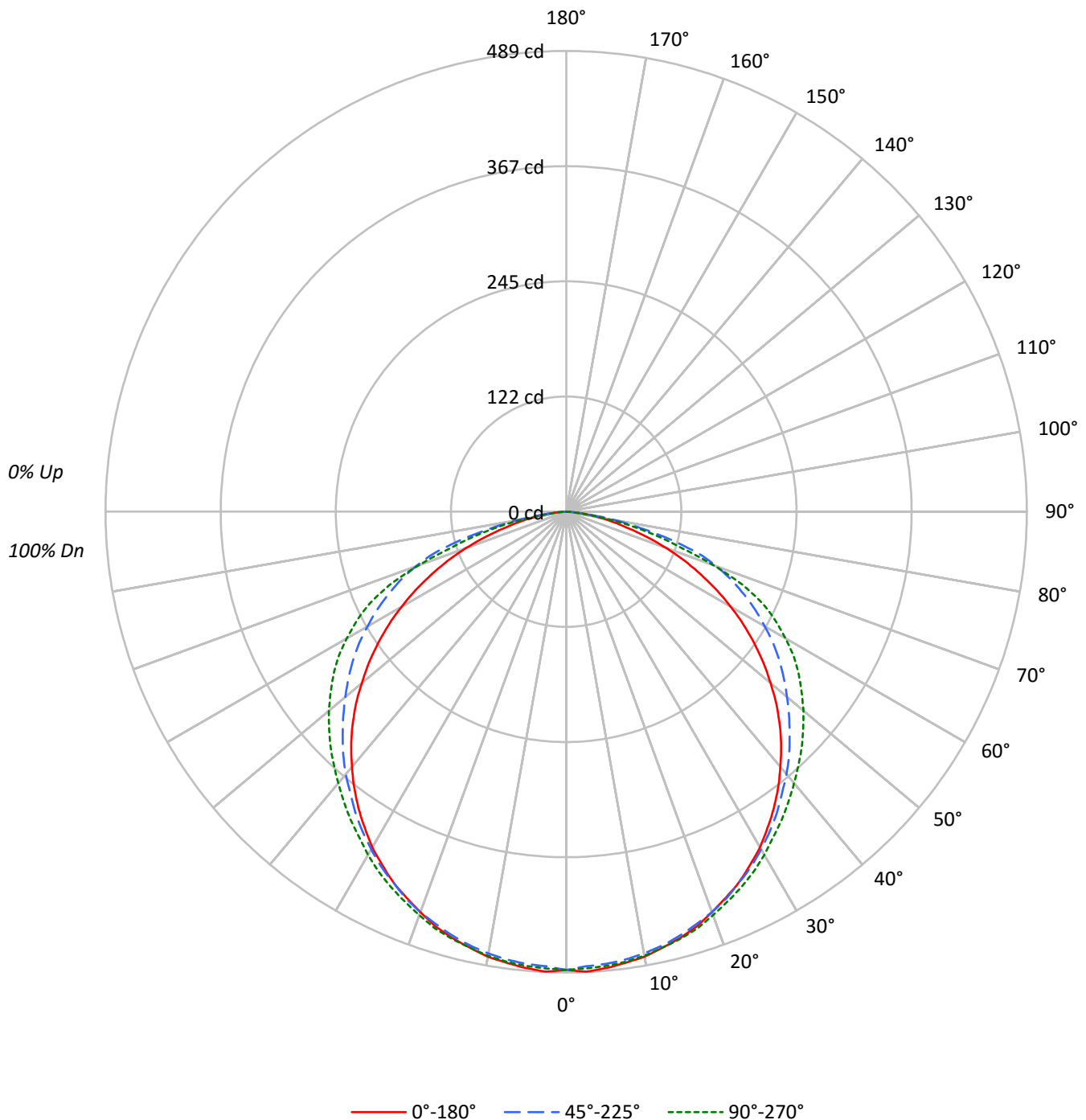
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1309	1309	1309
5°	1314	1301	1307
10°	1310	1301	1307
15°	1304	1298	1307
20°	1295	1295	1305
25°	1289	1289	1306
30°	1279	1286	1307
35°	1262	1281	1311
40°	1242	1278	1322
45°	1221	1277	1346
50°	1186	1281	1376
55°	1143	1298	1415
60°	1086	1312	1446
65°	1004	1328	1465
70°	892	1338	1311
75°	718	1202	1049
80°	563	843	685
85°	386	244	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.2
10°-20°	132.1	9.1
20°-30°	201.1	13.8
30°-40°	244.9	16.9
40°-50°	259.8	17.9
50°-60°	245.2	16.9
60°-70°	198.0	13.6
70°-80°	107.4	7.4
80°-90°	17.4	1.2
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°	379.2	26.1
0°-40°	624.1	43.0
0°-60°	1129.2	77.8
0°-90°	1452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	485	482	485	484	46
15°	468	467	466	469	469	132
25°	434	433	434	439	440	200
35°	384	387	390	398	399	240
45°	321	325	336	348	354	247
55°	244	254	277	295	302	218
65°	158	177	209	226	230	156
75°	69	101	116	104	101	76
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	486.3	486.3	486.3	486.3	486.3
2.5°	488.6	486.3	482.9	486.3	485.2
5°	486.3	485.2	481.8	485.2	484.0
7.5°	482.9	482.9	479.5	481.8	481.8
10°	479.5	478.4	476.1	479.5	478.4
12.5°	473.8	472.7	471.6	475.0	473.8
15°	468.2	467.0	465.9	469.3	469.3
17.5°	461.4	460.2	459.1	463.6	463.6
20°	452.3	452.3	452.3	456.8	455.7
22.5°	443.2	443.2	444.4	448.9	447.8
25°	434.2	433.0	434.2	438.7	439.8
27.5°	422.8	424.0	425.1	429.6	430.8
30°	411.5	412.6	413.8	419.4	420.6
32.5°	397.9	400.2	402.4	409.2	409.2
35°	384.3	386.6	390.0	397.9	399.0
37.5°	369.6	371.8	376.4	385.4	387.7
40°	353.7	357.1	363.9	373.0	376.4
42.5°	337.8	342.3	350.3	360.5	365.0
45°	320.8	325.3	335.5	348.0	353.7
47.5°	302.7	308.3	320.8	336.7	341.2
50°	283.4	291.3	306.1	323.1	328.7
52.5°	264.1	273.2	291.3	309.5	315.1
55°	243.7	253.9	276.6	294.7	301.5
57.5°	223.3	234.7	260.7	280.0	286.8
60°	201.8	215.4	243.7	263.0	268.7
62.5°	180.2	196.1	226.7	246.0	250.5
65°	157.6	176.8	208.6	225.6	230.1
67.5°	136.0	158.7	190.4	202.9	202.9
70°	113.4	138.3	170.0	173.4	166.6
72.5°	90.7	119.0	147.4	134.9	129.2
75°	69.1	100.9	115.6	104.3	100.9
77.5°	52.1	81.6	81.6	74.8	72.6
80°	36.3	62.3	54.4	47.6	44.2
82.5°	23.8	35.1	28.3	22.7	19.3
85°	12.5	13.6	7.9	6.8	5.7
87.5°	4.5	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)