

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: P307292

Luminaire Tested: **14FCZ2-20-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: P307292
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: 14FCZ2-20-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: 1244.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

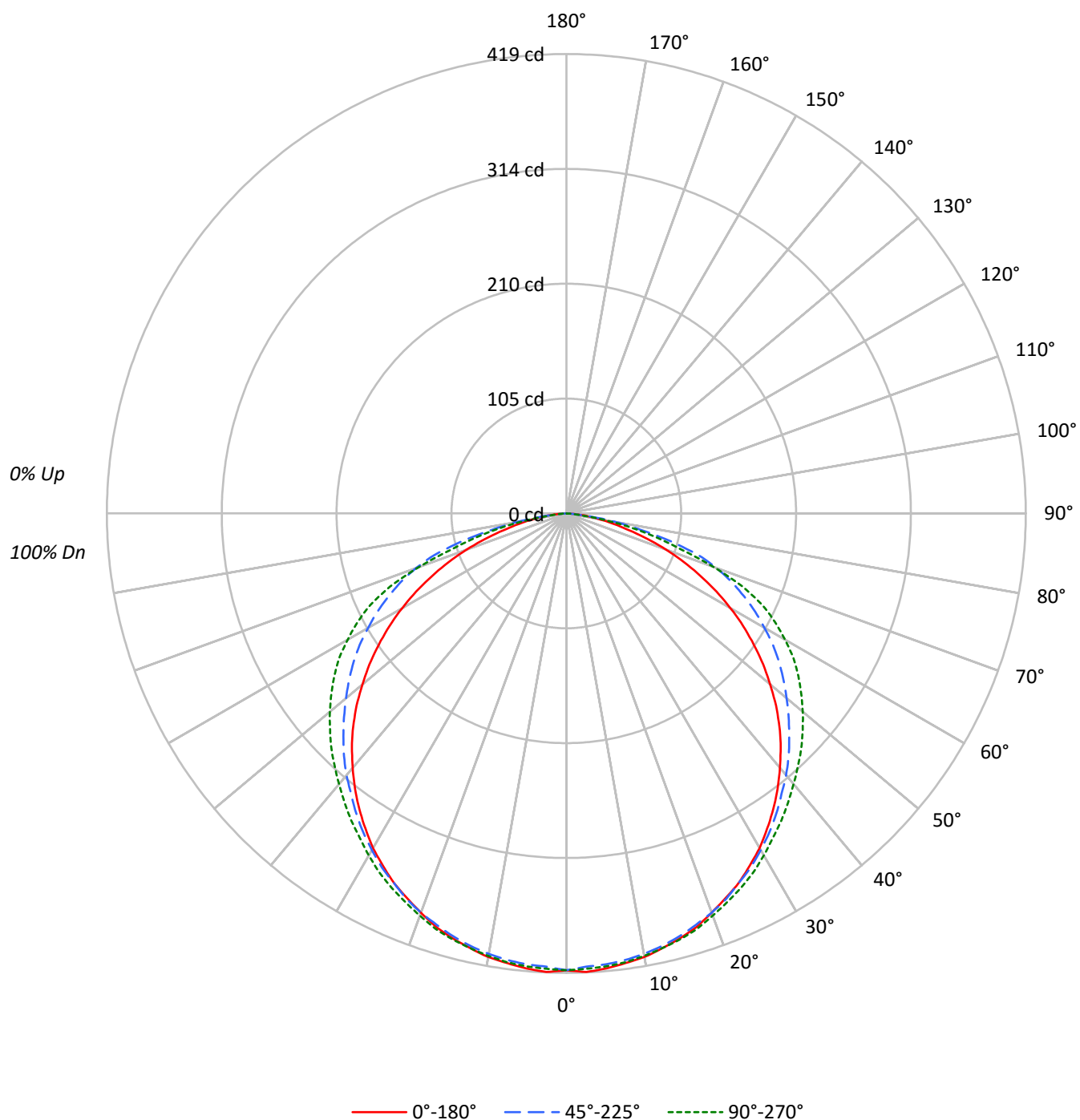
Input Watts (W): 17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1121	1121	1121
5°	1125	1115	1120
10°	1123	1115	1120
15°	1117	1112	1120
20°	1110	1110	1118
25°	1105	1105	1119
30°	1095	1102	1120
35°	1081	1098	1123
40°	1064	1095	1133
45°	1046	1094	1153
50°	1016	1098	1179
55°	980	1112	1212
60°	931	1124	1239
65°	860	1138	1256
70°	764	1146	1124
75°	616	1030	898
80°	482	722	587
85°	330	210	151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.2
10°-20°	113.1	9.1
20°-30°	172.3	13.8
30°-40°	209.8	16.9
40°-50°	222.6	17.9
50°-60°	210.1	16.9
60°-70°	169.6	13.6
70°-80°	92.0	7.4
80°-90°	14.9	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°	324.9	26.1
0°-40°	534.7	43.0
0°-60°	967.4	77.8
0°-90°	1244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	417	417	417	417	417	
5°	417	416	413	416	415	40
15°	401	400	399	402	402	113
25°	372	371	372	376	377	171
35°	329	331	334	341	342	206
45°	275	279	288	298	303	212
55°	209	218	237	252	258	187
65°	135	152	179	193	197	134
75°	59	86	99	89	86	65
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.6	416.6	416.6	416.6	416.6
2.5°	418.6	416.6	413.7	416.6	415.7
5°	416.6	415.7	412.8	415.7	414.7
7.5°	413.7	413.7	410.8	412.8	412.8
10°	410.8	409.8	407.9	410.8	409.8
12.5°	406.0	405.0	404.0	406.9	406.0
15°	401.1	400.1	399.2	402.1	402.1
17.5°	395.3	394.3	393.3	397.2	397.2
20°	387.5	387.5	387.5	391.4	390.4
22.5°	379.7	379.7	380.7	384.6	383.6
25°	372.0	371.0	372.0	375.9	376.8
27.5°	362.3	363.2	364.2	368.1	369.1
30°	352.5	353.5	354.5	359.3	360.3
32.5°	340.9	342.8	344.8	350.6	350.6
35°	329.2	331.2	334.1	340.9	341.9
37.5°	316.6	318.6	322.4	330.2	332.2
40°	303.0	305.9	311.8	319.5	322.4
42.5°	289.4	293.3	300.1	308.8	312.7
45°	274.9	278.7	287.5	298.2	303.0
47.5°	259.3	264.2	274.9	288.4	292.3
50°	242.8	249.6	262.2	276.8	281.6
52.5°	226.3	234.1	249.6	265.1	270.0
55°	208.8	217.6	237.0	252.5	258.3
57.5°	191.3	201.0	223.4	239.9	245.7
60°	172.9	184.5	208.8	225.3	230.2
62.5°	154.4	168.0	194.2	210.8	214.6
65°	135.0	151.5	178.7	193.3	197.2
67.5°	116.5	136.0	163.2	173.8	173.8
70°	97.1	118.5	145.7	148.6	142.8
72.5°	77.7	102.0	126.3	115.6	110.7
75°	59.2	86.4	99.1	89.4	86.4
77.5°	44.7	69.9	69.9	64.1	62.2
80°	31.1	53.4	46.6	40.8	37.9
82.5°	20.4	30.1	24.3	19.4	16.5
85°	10.7	11.7	6.8	5.8	4.9
87.5°	3.9	1.9	1.0	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)