

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: P307267

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-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: P307267
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-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 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: 1343.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

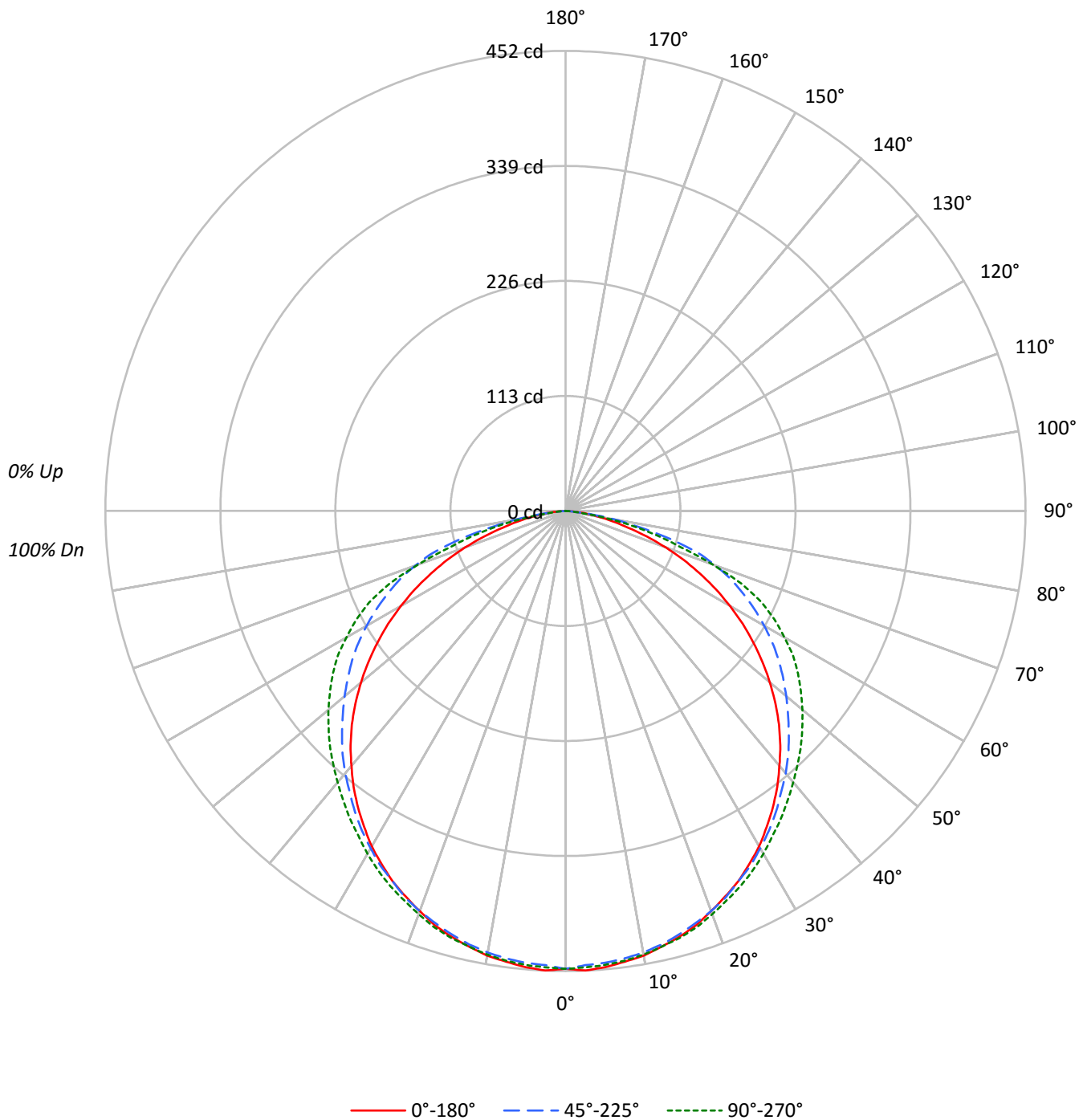
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1210	1210	1210
5°	1215	1204	1209
10°	1212	1203	1209
15°	1206	1200	1209
20°	1198	1198	1207
25°	1192	1192	1208
30°	1183	1189	1209
35°	1168	1185	1213
40°	1149	1182	1223
45°	1129	1181	1245
50°	1097	1185	1273
55°	1057	1200	1308
60°	1004	1213	1337
65°	928	1228	1355
70°	825	1238	1212
75°	665	1111	970
80°	521	779	634
85°	355	225	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.2
10°-20°	122.1	9.1
20°-30°	186.0	13.8
30°-40°	226.5	16.9
40°-50°	240.3	17.9
50°-60°	226.8	16.9
60°-70°	183.1	13.6
70°-80°	99.3	7.4
80°-90°	16.1	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°	350.7	26.1
0°-40°	577.3	43.0
0°-60°	1044.4	77.8
0°-90°	1343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	450	449	446	449	448	43
15°	433	432	431	434	434	122
25°	402	400	402	406	407	185
35°	355	358	361	368	369	222
45°	297	301	310	322	327	228
55°	225	235	256	273	279	201
65°	146	164	193	209	213	144
75°	64	93	107	96	93	70
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.8	449.8	449.8	449.8	449.8
2.5°	451.9	449.8	446.7	449.8	448.8
5°	449.8	448.8	445.6	448.8	447.7
7.5°	446.7	446.7	443.5	445.6	445.6
10°	443.5	442.5	440.4	443.5	442.5
12.5°	438.3	437.2	436.2	439.3	438.3
15°	433.0	432.0	430.9	434.1	434.1
17.5°	426.7	425.7	424.6	428.8	428.8
20°	418.4	418.4	418.4	422.5	421.5
22.5°	410.0	410.0	411.0	415.2	414.2
25°	401.6	400.5	401.6	405.8	406.8
27.5°	391.1	392.1	393.2	397.4	398.4
30°	380.6	381.7	382.7	387.9	389.0
32.5°	368.0	370.1	372.2	378.5	378.5
35°	355.4	357.5	360.7	368.0	369.1
37.5°	341.8	343.9	348.1	356.5	358.6
40°	327.1	330.3	336.6	345.0	348.1
42.5°	312.5	316.6	324.0	333.4	337.6
45°	296.7	300.9	310.4	321.9	327.1
47.5°	279.9	285.2	296.7	311.4	315.6
50°	262.1	269.5	283.1	298.8	304.1
52.5°	244.3	252.7	269.5	286.2	291.5
55°	225.4	234.9	255.8	272.6	278.9
57.5°	206.6	217.0	241.2	259.0	265.3
60°	186.6	199.2	225.4	243.3	248.5
62.5°	166.7	181.4	209.7	227.5	231.7
65°	145.7	163.6	192.9	208.7	212.8
67.5°	125.8	146.8	176.1	187.7	187.7
70°	104.8	127.9	157.3	160.4	154.1
72.5°	83.9	110.1	136.3	124.8	119.5
75°	64.0	93.3	106.9	96.5	93.3
77.5°	48.2	75.5	75.5	69.2	67.1
80°	33.6	57.7	50.3	44.0	40.9
82.5°	22.0	32.5	26.2	21.0	17.8
85°	11.5	12.6	7.3	6.3	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)