

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: P307271

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CP125-W2A-U-4000K**

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: P307271
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-CP125-W2A-U-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 4000K 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: 1257.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

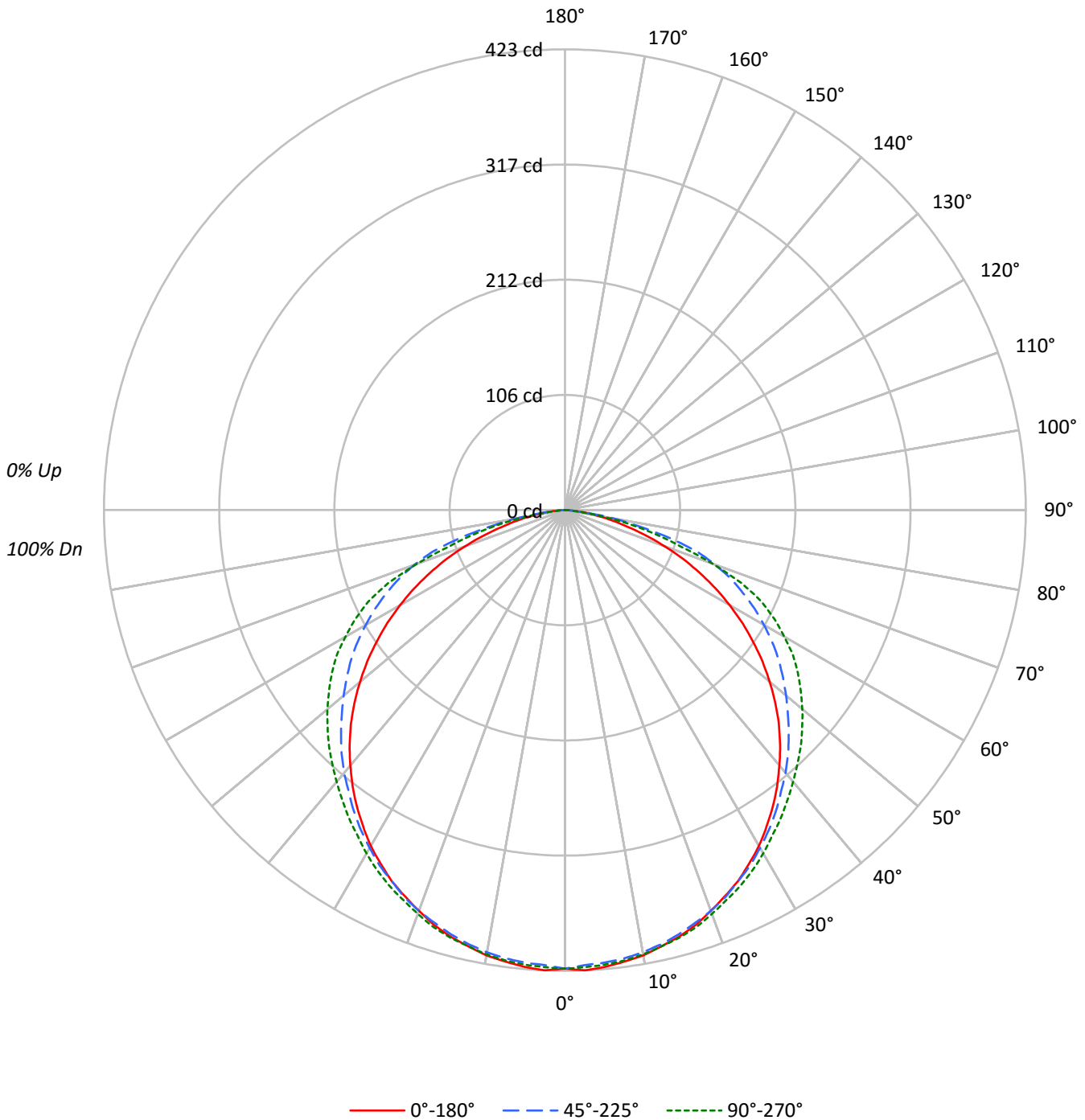
Input Watts (W): 16.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-20-UNV-L82765-RDP-CP125-W2A-U-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1133	1133	1133
5°	1137	1127	1132
10°	1134	1126	1132
15°	1129	1124	1132
20°	1121	1121	1130
25°	1116	1116	1131
30°	1107	1113	1131
35°	1093	1109	1135
40°	1076	1107	1144
45°	1057	1106	1165
50°	1027	1109	1191
55°	990	1124	1225
60°	940	1136	1252
65°	869	1150	1268
70°	772	1158	1135
75°	623	1041	908
80°	487	730	594
85°	333	213	151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	3.2
10°-20°	114.3	9.1
20°-30°	174.1	13.8
30°-40°	212.0	16.9
40°-50°	225.0	17.9
50°-60°	212.3	16.9
60°-70°	171.4	13.6
70°-80°	93.0	7.4
80°-90°	15.1	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°	328.3	26.1
0°-40°	540.3	43.0
0°-60°	977.6	77.8
0°-90°	1257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	421	420	417	420	419	40
15°	405	404	403	406	406	114
25°	376	375	376	380	381	173
35°	333	335	338	344	345	208
45°	278	282	290	301	306	214
55°	211	220	240	255	261	188
65°	136	153	181	195	199	135
75°	60	87	100	90	87	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°	421.0	421.0	421.0	421.0	421.0
2.5°	423.0	421.0	418.1	421.0	420.0
5°	421.0	420.0	417.1	420.0	419.0
7.5°	418.1	418.1	415.1	417.1	417.1
10°	415.1	414.1	412.2	415.1	414.1
12.5°	410.2	409.2	408.2	411.2	410.2
15°	405.3	404.3	403.3	406.3	406.3
17.5°	399.4	398.4	397.4	401.4	401.4
20°	391.6	391.6	391.6	395.5	394.5
22.5°	383.7	383.7	384.7	388.6	387.6
25°	375.9	374.9	375.9	379.8	380.8
27.5°	366.0	367.0	368.0	371.9	372.9
30°	356.2	357.2	358.2	363.1	364.1
32.5°	344.5	346.4	348.4	354.3	354.3
35°	332.7	334.6	337.6	344.5	345.4
37.5°	319.9	321.9	325.8	333.7	335.6
40°	306.2	309.1	315.0	322.9	325.8
42.5°	292.4	296.4	303.2	312.1	316.0
45°	277.7	281.6	290.5	301.3	306.2
47.5°	262.0	266.9	277.7	291.5	295.4
50°	245.3	252.2	265.0	279.7	284.6
52.5°	228.7	236.5	252.2	267.9	272.8
55°	211.0	219.8	239.5	255.2	261.0
57.5°	193.3	203.1	225.7	242.4	248.3
60°	174.7	186.5	211.0	227.7	232.6
62.5°	156.0	169.8	196.3	213.0	216.9
65°	136.4	153.1	180.6	195.3	199.2
67.5°	117.8	137.4	164.9	175.7	175.7
70°	98.1	119.7	147.2	150.1	144.3
72.5°	78.5	103.0	127.6	116.8	111.9
75°	59.9	87.3	100.1	90.3	87.3
77.5°	45.1	70.7	70.7	64.8	62.8
80°	31.4	54.0	47.1	41.2	38.3
82.5°	20.6	30.4	24.5	19.6	16.7
85°	10.8	11.8	6.9	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)