

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: P307273

Luminaire Tested: **14FCZ2-20-UNV-L82765-RDP-CP125-W2A-U-5000K**

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: P307273
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-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 1297.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

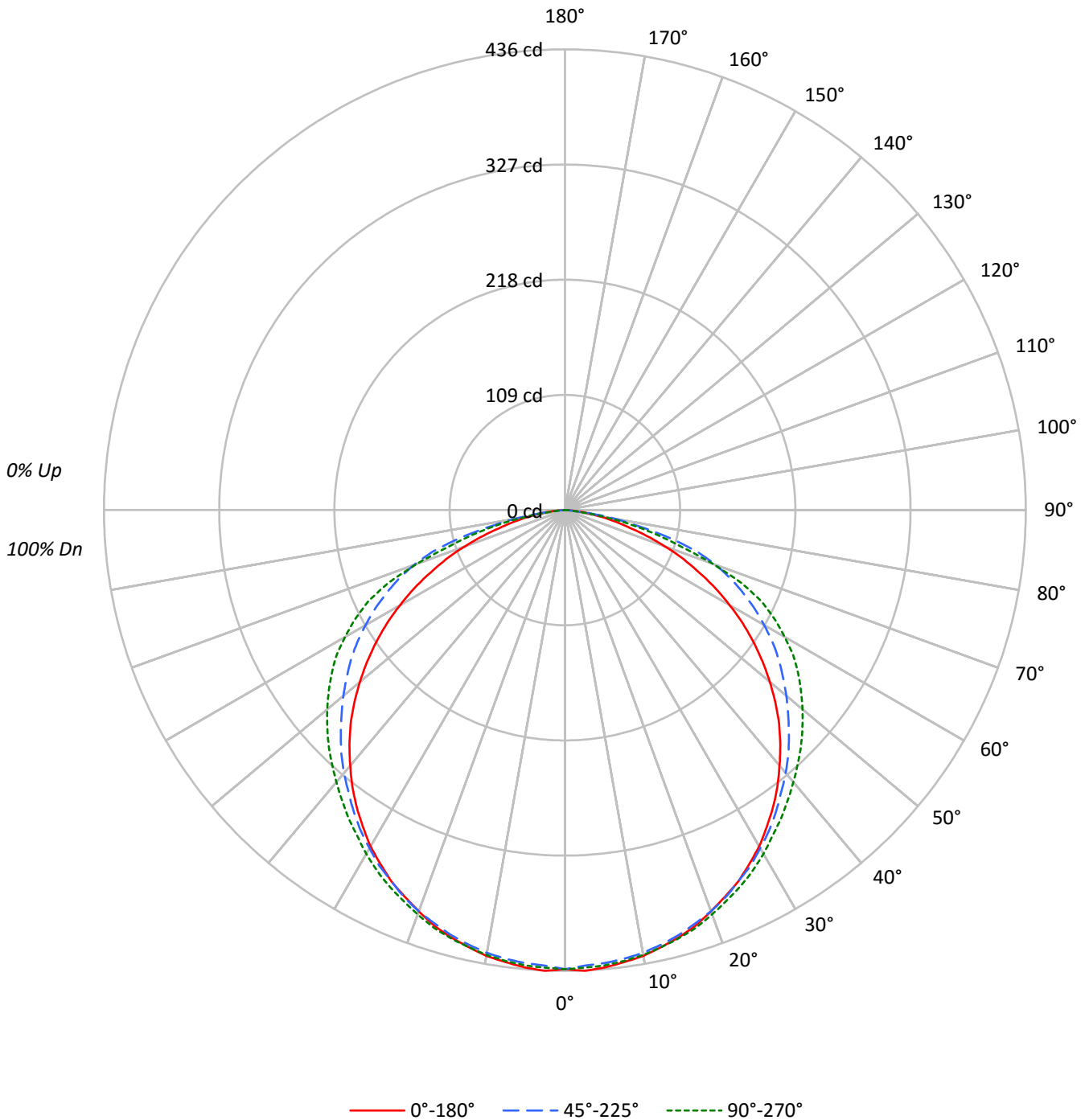
Input Watts (W): 16.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: 14FC22-20-UNV-L82765-RDP-CP125-W2A-U-5000K

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°	1169	1169	1169
5°	1173	1162	1168
10°	1170	1162	1168
15°	1165	1159	1168
20°	1157	1157	1166
25°	1151	1151	1167
30°	1142	1148	1167
35°	1128	1144	1171
40°	1110	1142	1181
45°	1091	1141	1202
50°	1060	1145	1229
55°	1021	1159	1263
60°	970	1172	1292
65°	896	1186	1309
70°	797	1195	1171
75°	643	1074	937
80°	502	753	612
85°	343	219	157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	3.2
10°-20°	118.0	9.1
20°-30°	179.6	13.8
30°-40°	218.8	16.9
40°-50°	232.1	17.9
50°-60°	219.1	16.9
60°-70°	176.9	13.6
70°-80°	95.9	7.4
80°-90°	15.5	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°	338.7	26.1
0°-40°	557.5	43.0
0°-60°	1008.6	77.8
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	434	433	430	433	432	41
15°	418	417	416	419	419	118
25°	388	387	388	392	393	179
35°	343	345	348	355	356	215
45°	287	291	300	311	316	221
55°	218	227	247	263	269	194
65°	141	158	186	202	206	139
75°	62	90	103	93	90	68
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°	434.4	434.4	434.4	434.4	434.4
2.5°	436.4	434.4	431.4	434.4	433.4
5°	434.4	433.4	430.3	433.4	432.4
7.5°	431.4	431.4	428.3	430.3	430.3
10°	428.3	427.3	425.3	428.3	427.3
12.5°	423.3	422.2	421.2	424.3	423.3
15°	418.2	417.2	416.2	419.2	419.2
17.5°	412.1	411.1	410.1	414.1	414.1
20°	404.0	404.0	404.0	408.1	407.1
22.5°	395.9	395.9	396.9	401.0	400.0
25°	387.8	386.8	387.8	391.9	392.9
27.5°	377.7	378.7	379.7	383.8	384.8
30°	367.6	368.6	369.6	374.7	375.7
32.5°	355.4	357.4	359.5	365.5	365.5
35°	343.3	345.3	348.3	355.4	356.4
37.5°	330.1	332.1	336.2	344.3	346.3
40°	315.9	319.0	325.0	333.1	336.2
42.5°	301.7	305.8	312.9	322.0	326.1
45°	286.6	290.6	299.7	310.9	315.9
47.5°	270.4	275.4	286.6	300.7	304.8
50°	253.1	260.2	273.4	288.6	293.6
52.5°	235.9	244.0	260.2	276.4	281.5
55°	217.7	226.8	247.1	263.3	269.3
57.5°	199.5	209.6	232.9	250.1	256.2
60°	180.2	192.4	217.7	234.9	240.0
62.5°	161.0	175.2	202.5	219.7	223.8
65°	140.7	158.0	186.3	201.5	205.6
67.5°	121.5	141.8	170.1	181.3	181.3
70°	101.3	123.5	151.9	154.9	148.8
72.5°	81.0	106.3	131.6	120.5	115.4
75°	61.8	90.1	103.3	93.2	90.1
77.5°	46.6	72.9	72.9	66.8	64.8
80°	32.4	55.7	48.6	42.5	39.5
82.5°	21.3	31.4	25.3	20.3	17.2
85°	11.1	12.2	7.1	6.1	5.1
87.5°	4.1	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)