

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: P307314

Luminaire Tested: **14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3000K**

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: P307314
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-CP125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 1387.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

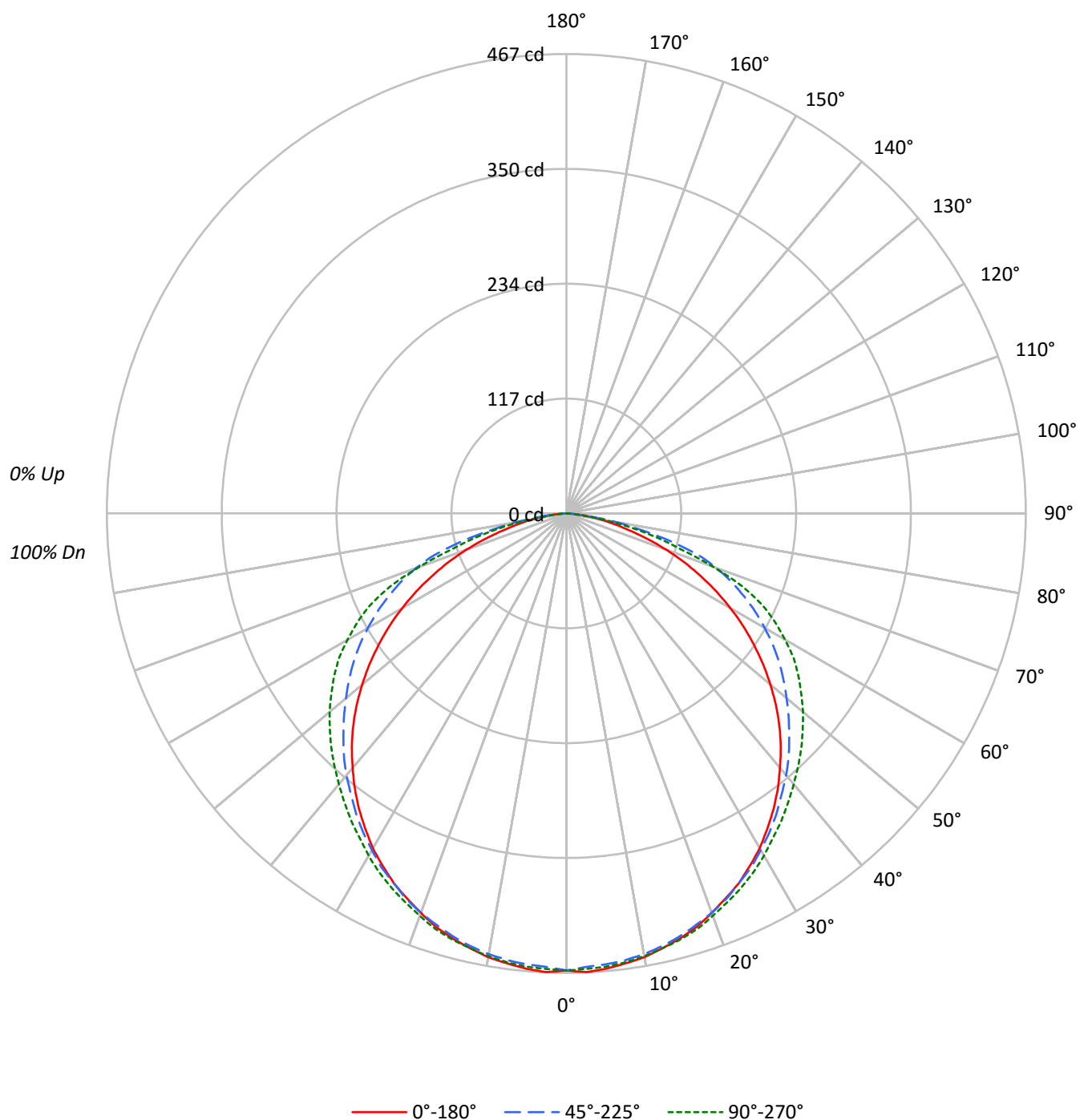
Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307314

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P307314

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3000K

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°	1250	1250	1250
5°	1255	1243	1249
10°	1251	1243	1249
15°	1246	1240	1249
20°	1237	1237	1247
25°	1231	1231	1247
30°	1221	1228	1248
35°	1206	1224	1252
40°	1187	1221	1263
45°	1166	1220	1286
50°	1133	1224	1315
55°	1092	1240	1351
60°	1037	1253	1381
65°	958	1268	1400
70°	852	1278	1253
75°	687	1149	1002
80°	538	806	654
85°	367	235	167



TEST NUMBER: P307314

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	3.2
10°-20°	126.2	9.1
20°-30°	192.1	13.8
30°-40°	234.0	16.9
40°-50°	248.2	17.9
50°-60°	234.3	16.9
60°-70°	189.1	13.6
70°-80°	102.6	7.4
80°-90°	16.6	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°	362.2	26.1
0°-40°	596.2	43.0
0°-60°	1078.6	77.8
0°-90°	1387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	464	464	460	464	462	44
15°	447	446	445	448	448	126
25°	415	414	415	419	420	191
35°	367	369	372	380	381	230
45°	306	311	320	332	338	236
55°	233	243	264	282	288	208
65°	150	169	199	216	220	149
75°	66	96	110	100	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



TEST NUMBER: P307314

CATALOG NUMBER: 14FCZ2-25-UNV-L82765-RDP-CP125-W2A-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.5	464.5	464.5	464.5	464.5
2.5°	466.7	464.5	461.3	464.5	463.5
5°	464.5	463.5	460.2	463.5	462.4
7.5°	461.3	461.3	458.0	460.2	460.2
10°	458.0	457.0	454.8	458.0	457.0
12.5°	452.6	451.5	450.5	453.7	452.6
15°	447.2	446.1	445.1	448.3	448.3
17.5°	440.7	439.6	438.6	442.9	442.9
20°	432.1	432.1	432.1	436.4	435.3
22.5°	423.4	423.4	424.5	428.8	427.7
25°	414.7	413.6	414.7	419.1	420.1
27.5°	403.9	405.0	406.1	410.4	411.5
30°	393.1	394.2	395.2	400.7	401.7
32.5°	380.1	382.2	384.4	390.9	390.9
35°	367.1	369.3	372.5	380.1	381.2
37.5°	353.0	355.2	359.5	368.2	370.3
40°	337.8	341.1	347.6	356.3	359.5
42.5°	322.7	327.0	334.6	344.3	348.7
45°	306.4	310.8	320.5	332.4	337.8
47.5°	289.1	294.5	306.4	321.6	325.9
50°	270.7	278.3	292.4	308.6	314.0
52.5°	252.3	261.0	278.3	295.6	301.0
55°	232.8	242.6	264.2	281.5	288.0
57.5°	213.3	224.1	249.1	267.5	274.0
60°	192.7	205.7	232.8	251.2	256.6
62.5°	172.2	187.3	216.6	235.0	239.3
65°	150.5	168.9	199.2	215.5	219.8
67.5°	129.9	151.6	181.9	193.8	193.8
70°	108.3	132.1	162.4	165.7	159.2
72.5°	86.6	113.7	140.8	128.9	123.4
75°	66.1	96.4	110.5	99.6	96.4
77.5°	49.8	78.0	78.0	71.5	69.3
80°	34.7	59.6	52.0	45.5	42.2
82.5°	22.7	33.6	27.1	21.7	18.4
85°	11.9	13.0	7.6	6.5	5.4
87.5°	4.3	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)