

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: P307449

Luminaire Tested: **14FCZ2-39-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: P307449
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: 14FCZ2-39-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: 2201.0 lumens
Efficiency: N/A
Efficacy: 66.5 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

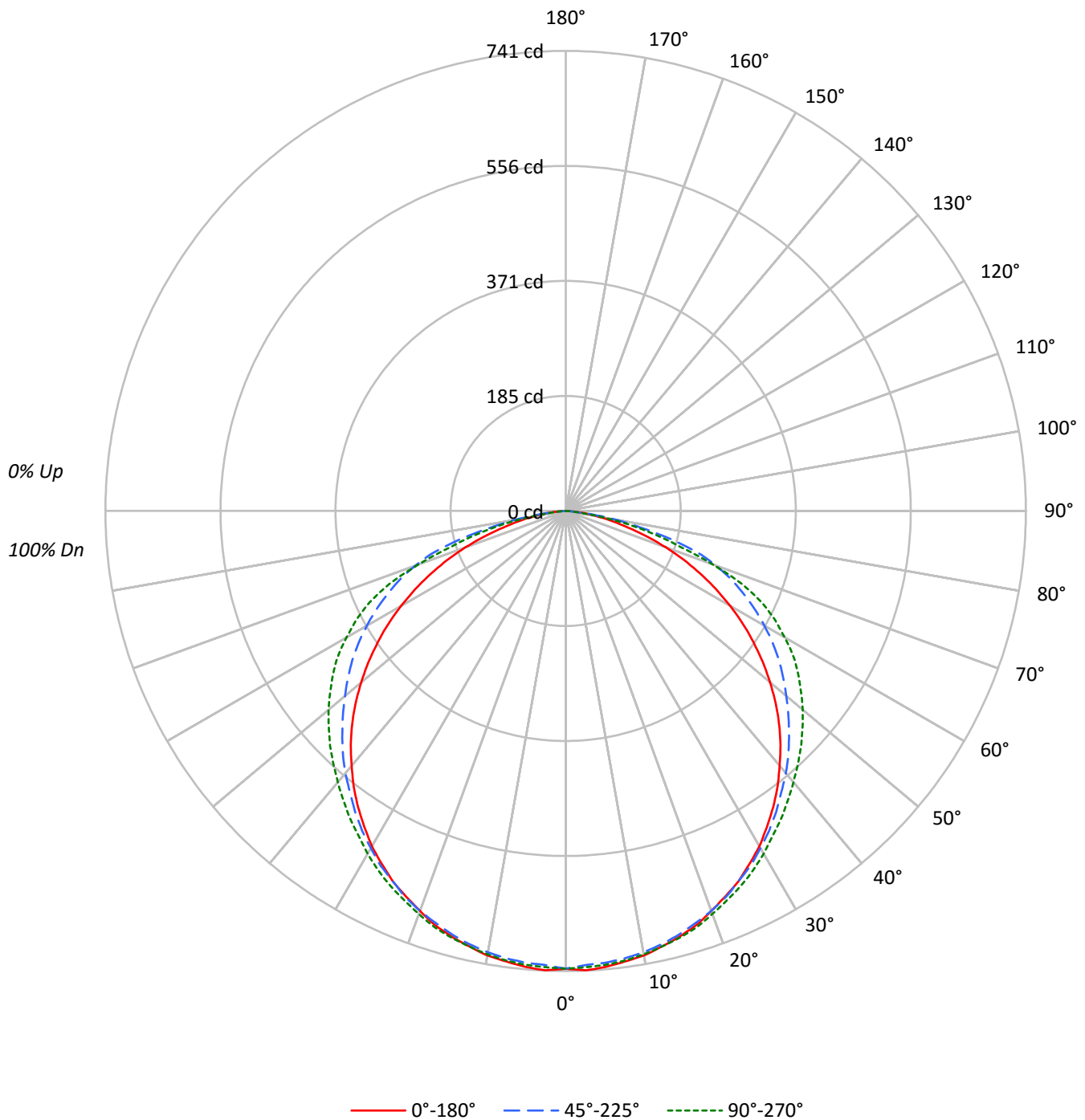
Input Watts (W): 33.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307449

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-RDP-CP125-W2A-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P307449

CATALOG NUMBER: 14FCZ2-39-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°	1984	1984	1984
5°	1991	1973	1982
10°	1986	1972	1981
15°	1977	1967	1982
20°	1963	1963	1978
25°	1954	1954	1980
30°	1938	1949	1981
35°	1914	1942	1987
40°	1883	1938	2004
45°	1851	1936	2040
50°	1798	1942	2086
55°	1733	1967	2145
60°	1646	1988	2192
65°	1521	2013	2221
70°	1352	2028	1987
75°	1090	1823	1590
80°	852	1278	1038
85°	584	371	266



TEST NUMBER: P307449

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-RDP-CP125-W2A-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.2
10°-20°	200.2	9.1
20°-30°	304.8	13.8
30°-40°	371.3	16.9
40°-50°	393.9	17.9
50°-60°	371.7	16.9
60°-70°	300.2	13.6
70°-80°	162.8	7.4
80°-90°	26.3	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°	574.8	26.1
0°-40°	946.0	43.0
0°-60°	1711.7	77.8
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	737	736	730	736	734	70
15°	710	708	706	711	711	200
25°	658	656	658	665	667	303
35°	582	586	591	603	605	364
45°	486	493	509	528	536	374
55°	369	385	419	447	457	330
65°	239	268	316	342	349	237
75°	105	153	175	158	153	115
85°	19	21	12	10	9	24
90°	0	0	0	0	0	



TEST NUMBER: P307449

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-RDP-CP125-W2A-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.2	737.2	737.2	737.2	737.2
2.5°	740.6	737.2	732.0	737.2	735.5
5°	737.2	735.5	730.3	735.5	733.7
7.5°	732.0	732.0	726.9	730.3	730.3
10°	726.9	725.1	721.7	726.9	725.1
12.5°	718.3	716.6	714.8	720.0	718.3
15°	709.7	708.0	706.2	711.4	711.4
17.5°	699.4	697.6	695.9	702.8	702.8
20°	685.6	685.6	685.6	692.5	690.8
22.5°	671.9	671.9	673.6	680.5	678.7
25°	658.1	656.4	658.1	665.0	666.7
27.5°	640.9	642.7	644.4	651.3	653.0
30°	623.8	625.5	627.2	635.8	637.5
32.5°	603.1	606.6	610.0	620.3	620.3
35°	582.5	586.0	591.1	603.1	604.9
37.5°	560.2	563.6	570.5	584.2	587.7
40°	536.1	541.3	551.6	565.3	570.5
42.5°	512.1	518.9	531.0	546.4	553.3
45°	486.3	493.2	508.6	527.5	536.1
47.5°	458.8	467.4	486.3	510.3	517.2
50°	429.6	441.6	464.0	489.7	498.3
52.5°	400.4	414.1	441.6	469.1	477.7
55°	369.4	384.9	419.3	446.8	457.1
57.5°	338.5	355.7	395.2	424.4	434.7
60°	305.9	326.5	369.4	398.7	407.2
62.5°	273.2	297.3	343.7	372.9	379.8
65°	238.9	268.1	316.2	342.0	348.8
67.5°	206.2	240.6	288.7	307.6	307.6
70°	171.8	209.6	257.8	262.9	252.6
72.5°	137.5	180.4	223.4	204.5	195.9
75°	104.8	152.9	175.3	158.1	152.9
77.5°	79.0	123.7	123.7	113.4	110.0
80°	55.0	94.5	82.5	72.2	67.0
82.5°	36.1	53.3	43.0	34.4	29.2
85°	18.9	20.6	12.0	10.3	8.6
87.5°	6.9	3.4	1.7	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)