

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: P307493

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-2700K**

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: P307493
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: 14FCZ2-44-UNV-L82765-RDP-CP125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 2700K 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: 2391.0 lumens
Efficiency: N/A
Efficacy: 62.4 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

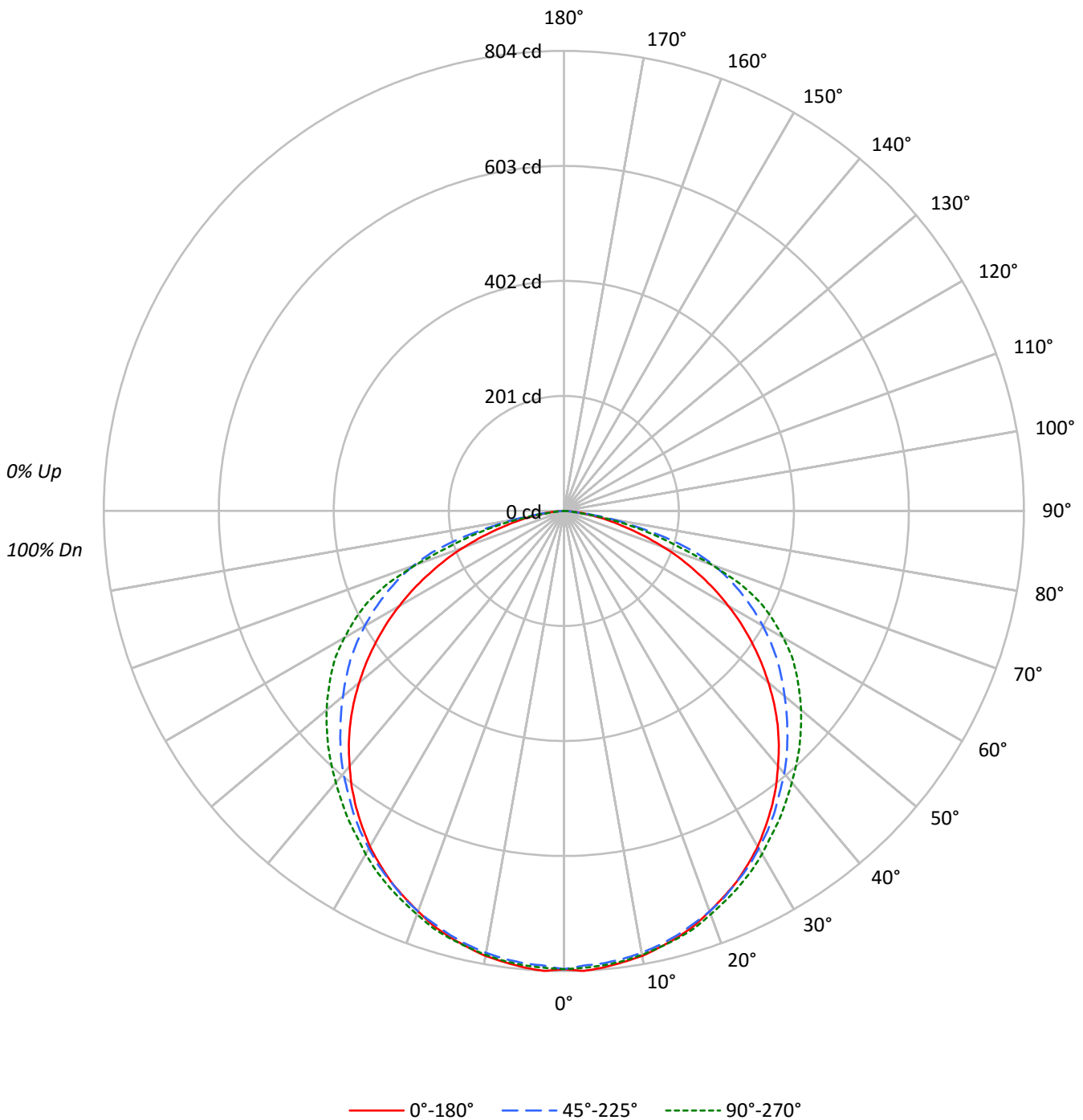
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2155	2155	2155
5°	2163	2143	2153
10°	2158	2142	2152
15°	2148	2137	2153
20°	2133	2133	2149
25°	2123	2123	2151
30°	2105	2117	2152
35°	2079	2109	2159
40°	2046	2105	2177
45°	2011	2103	2216
50°	1954	2110	2266
55°	1883	2137	2329
60°	1788	2160	2381
65°	1652	2187	2413
70°	1469	2203	2159
75°	1184	1980	1727
80°	925	1389	1128
85°	633	404	287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	217.5	9.1
20°-30°	331.1	13.8
30°-40°	403.3	16.9
40°-50°	427.9	17.9
50°-60°	403.8	16.9
60°-70°	326.1	13.6
70°-80°	176.9	7.4
80°-90°	28.6	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°	624.4	26.1
0°-40°	1027.7	43.0
0°-60°	1859.4	77.8
0°-90°	2391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	801	799	793	799	797	76
15°	771	769	767	773	773	218
25°	715	713	715	722	724	329
35°	633	636	642	655	657	396
45°	528	536	552	573	582	407
55°	401	418	456	485	496	358
65°	260	291	344	372	379	257
75°	114	166	190	172	166	124
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.8	800.8	800.8	800.8	800.8
2.5°	804.5	800.8	795.2	800.8	798.9
5°	800.8	798.9	793.3	798.9	797.1
7.5°	795.2	795.2	789.6	793.3	793.3
10°	789.6	787.7	784.0	789.6	787.7
12.5°	780.3	778.4	776.5	782.1	780.3
15°	770.9	769.1	767.2	772.8	772.8
17.5°	759.7	757.9	756.0	763.5	763.5
20°	744.8	744.8	744.8	752.3	750.4
22.5°	729.9	729.9	731.7	739.2	737.3
25°	714.9	713.1	714.9	722.4	724.3
27.5°	696.3	698.1	700.0	707.5	709.3
30°	677.6	679.5	681.3	690.7	692.5
32.5°	655.2	658.9	662.7	673.9	673.9
35°	632.8	636.5	642.1	655.2	657.1
37.5°	608.5	612.3	619.7	634.7	638.4
40°	582.4	588.0	599.2	614.1	619.7
42.5°	556.3	563.7	576.8	593.6	601.1
45°	528.3	535.7	552.5	573.1	582.4
47.5°	498.4	507.7	528.3	554.4	561.9
50°	466.7	479.7	504.0	532.0	541.3
52.5°	434.9	449.9	479.7	509.6	518.9
55°	401.3	418.1	455.5	485.3	496.5
57.5°	367.7	386.4	429.3	461.1	472.3
60°	332.3	354.7	401.3	433.1	442.4
62.5°	296.8	322.9	373.3	405.1	412.5
65°	259.5	291.2	343.5	371.5	378.9
67.5°	224.0	261.3	313.6	334.1	334.1
70°	186.7	227.7	280.0	285.6	274.4
72.5°	149.3	196.0	242.7	222.1	212.8
75°	113.9	166.1	190.4	171.7	166.1
77.5°	85.9	134.4	134.4	123.2	119.5
80°	59.7	102.7	89.6	78.4	72.8
82.5°	39.2	57.9	46.7	37.3	31.7
85°	20.5	22.4	13.1	11.2	9.3
87.5°	7.5	3.7	1.9	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)