

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: P312125

Luminaire Tested: **14FCZ2-44-UNV-L83050-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: P312125
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-L83050-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: 2463.0 lumens
Efficiency: N/A
Efficacy: 64.5 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

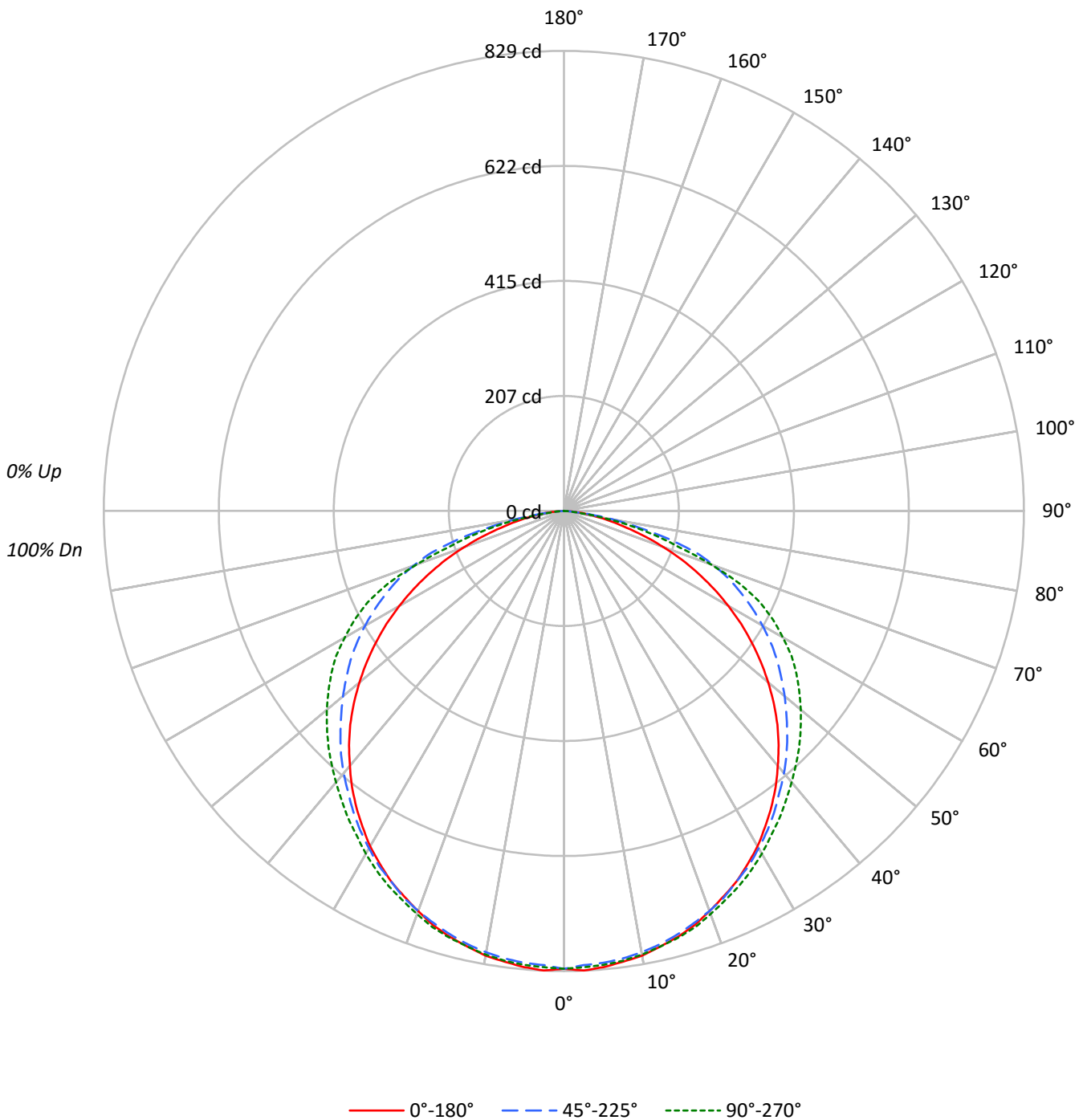
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2220	2220	2220
5°	2228	2207	2218
10°	2223	2207	2217
15°	2213	2202	2218
20°	2197	2197	2214
25°	2187	2187	2215
30°	2169	2181	2217
35°	2142	2173	2224
40°	2107	2168	2243
45°	2071	2166	2283
50°	2012	2174	2334
55°	1939	2201	2400
60°	1842	2225	2453
65°	1702	2253	2485
70°	1513	2269	2224
75°	1220	2039	1779
80°	953	1430	1162
85°	655	417	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.2
10°-20°	224.0	9.1
20°-30°	341.1	13.8
30°-40°	415.5	16.9
40°-50°	440.8	17.9
50°-60°	416.0	16.9
60°-70°	335.9	13.6
70°-80°	182.2	7.4
80°-90°	29.5	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°	643.2	26.1
0°-40°	1058.7	43.0
0°-60°	1915.4	77.8
0°-90°	2463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	825	823	817	823	821	78
15°	794	792	790	796	796	224
25°	736	734	736	744	746	339
35°	652	656	662	675	677	408
45°	544	552	569	590	600	419
55°	413	431	469	500	512	369
65°	267	300	354	383	390	265
75°	117	171	196	177	171	128
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.9	824.9	824.9	824.9	824.9
2.5°	828.8	824.9	819.2	824.9	823.0
5°	824.9	823.0	817.2	823.0	821.1
7.5°	819.2	819.2	813.4	817.2	817.2
10°	813.4	811.5	807.6	813.4	811.5
12.5°	803.8	801.8	799.9	805.7	803.8
15°	794.2	792.2	790.3	796.1	796.1
17.5°	782.6	780.7	778.8	786.5	786.5
20°	767.2	767.2	767.2	774.9	773.0
22.5°	751.9	751.9	753.8	761.5	759.5
25°	736.5	734.5	736.5	744.2	746.1
27.5°	717.2	719.2	721.1	728.8	730.7
30°	698.0	699.9	701.9	711.5	713.4
32.5°	674.9	678.8	682.6	694.2	694.2
35°	651.9	655.7	661.5	674.9	676.9
37.5°	626.9	630.7	638.4	653.8	657.6
40°	599.9	605.7	617.2	632.6	638.4
42.5°	573.0	580.7	594.2	611.5	619.2
45°	544.2	551.9	569.2	590.3	599.9
47.5°	513.4	523.0	544.2	571.1	578.8
50°	480.7	494.2	519.2	548.0	557.6
52.5°	448.0	463.4	494.2	525.0	534.6
55°	413.4	430.7	469.2	500.0	511.5
57.5°	378.8	398.0	442.3	475.0	486.5
60°	342.3	365.3	413.4	446.1	455.7
62.5°	305.7	332.7	384.6	417.3	425.0
65°	267.3	300.0	353.8	382.7	390.3
67.5°	230.7	269.2	323.0	344.2	344.2
70°	192.3	234.6	288.4	294.2	282.7
72.5°	153.8	201.9	250.0	228.8	219.2
75°	117.3	171.1	196.1	176.9	171.1
77.5°	88.5	138.4	138.4	126.9	123.1
80°	61.5	105.8	92.3	80.8	75.0
82.5°	40.4	59.6	48.1	38.5	32.7
85°	21.2	23.1	13.5	11.5	9.6
87.5°	7.7	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)