

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: P307445

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CA125-W2A-U-5500K**

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: P307445
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-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 5500K 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: 2472.0 lumens
Efficiency: N/A
Efficacy: 72.3 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

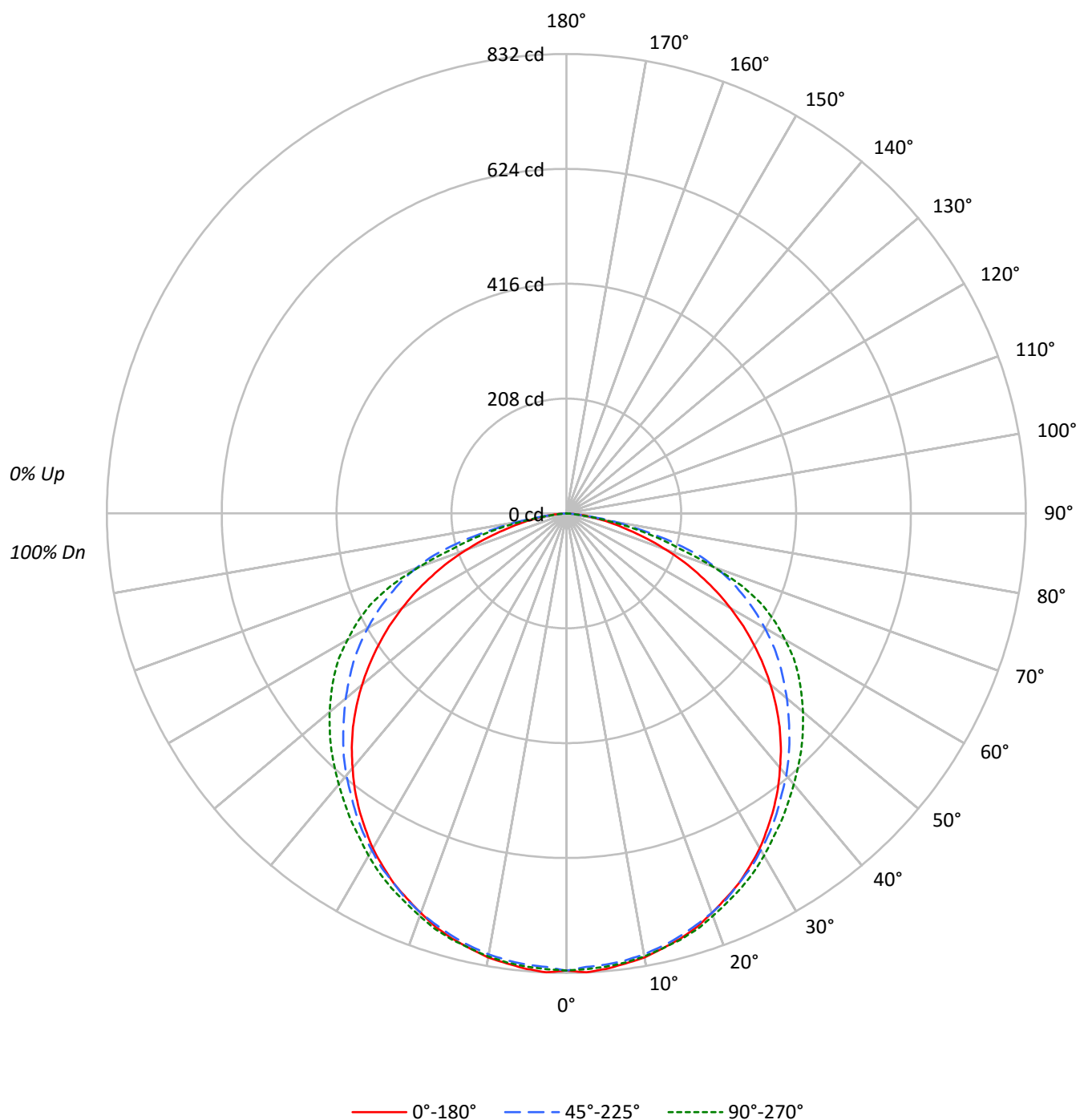
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2228	2228	2228
5°	2236	2216	2226
10°	2231	2215	2225
15°	2221	2210	2226
20°	2205	2205	2222
25°	2195	2195	2223
30°	2177	2189	2225
35°	2149	2181	2232
40°	2115	2176	2251
45°	2079	2174	2291
50°	2020	2182	2343
55°	1947	2209	2409
60°	1849	2233	2462
65°	1708	2261	2495
70°	1519	2278	2232
75°	1224	2047	1786
80°	958	1435	1167
85°	655	417	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.2
10°-20°	224.8	9.1
20°-30°	342.3	13.8
30°-40°	417.0	16.9
40°-50°	442.4	17.9
50°-60°	417.5	16.9
60°-70°	337.1	13.6
70°-80°	182.9	7.4
80°-90°	29.6	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°	645.5	26.1
0°-40°	1062.5	43.0
0°-60°	1922.4	77.8
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	828	826	820	826	824	79
15°	797	795	793	799	799	225
25°	739	737	739	747	749	340
35°	654	658	664	677	679	409
45°	546	554	571	592	602	421
55°	415	432	471	502	513	371
65°	268	301	355	384	392	266
75°	118	172	197	178	172	129
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°	827.9	827.9	827.9	827.9	827.9
2.5°	831.8	827.9	822.1	827.9	826.0
5°	827.9	826.0	820.2	826.0	824.1
7.5°	822.1	822.1	816.4	820.2	820.2
10°	816.4	814.4	810.6	816.4	814.4
12.5°	806.7	804.8	802.8	808.6	806.7
15°	797.1	795.1	793.2	799.0	799.0
17.5°	785.5	783.5	781.6	789.3	789.3
20°	770.0	770.0	770.0	777.8	775.8
22.5°	754.6	754.6	756.5	764.2	762.3
25°	739.2	737.2	739.2	746.9	748.8
27.5°	719.9	721.8	723.7	731.4	733.4
30°	700.6	702.5	704.4	714.1	716.0
32.5°	677.4	681.3	685.1	696.7	696.7
35°	654.2	658.1	663.9	677.4	679.3
37.5°	629.2	633.0	640.7	656.2	660.0
40°	602.1	607.9	619.5	634.9	640.7
42.5°	575.1	582.8	596.3	613.7	621.4
45°	546.2	553.9	571.3	592.5	602.1
47.5°	515.3	524.9	546.2	573.2	580.9
50°	482.5	496.0	521.1	550.0	559.7
52.5°	449.7	465.1	496.0	526.9	536.5
55°	414.9	432.3	470.9	501.8	513.4
57.5°	380.2	399.5	443.9	476.7	488.3
60°	343.5	366.7	414.9	447.7	457.4
62.5°	306.9	333.9	386.0	418.8	426.5
65°	268.3	301.1	355.1	384.1	391.8
67.5°	231.6	270.2	324.2	345.5	345.5
70°	193.0	235.5	289.5	295.3	283.7
72.5°	154.4	202.6	250.9	229.7	220.0
75°	117.7	171.8	196.9	177.6	171.8
77.5°	88.8	139.0	139.0	127.4	123.5
80°	61.8	106.1	92.6	81.1	75.3
82.5°	40.5	59.8	48.2	38.6	32.8
85°	21.2	23.2	13.5	11.6	9.6
87.5°	7.7	3.9	1.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)