

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: P307446

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CA125-W2A-U-5700K**

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: P307446
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-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 5700K 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: 2478.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

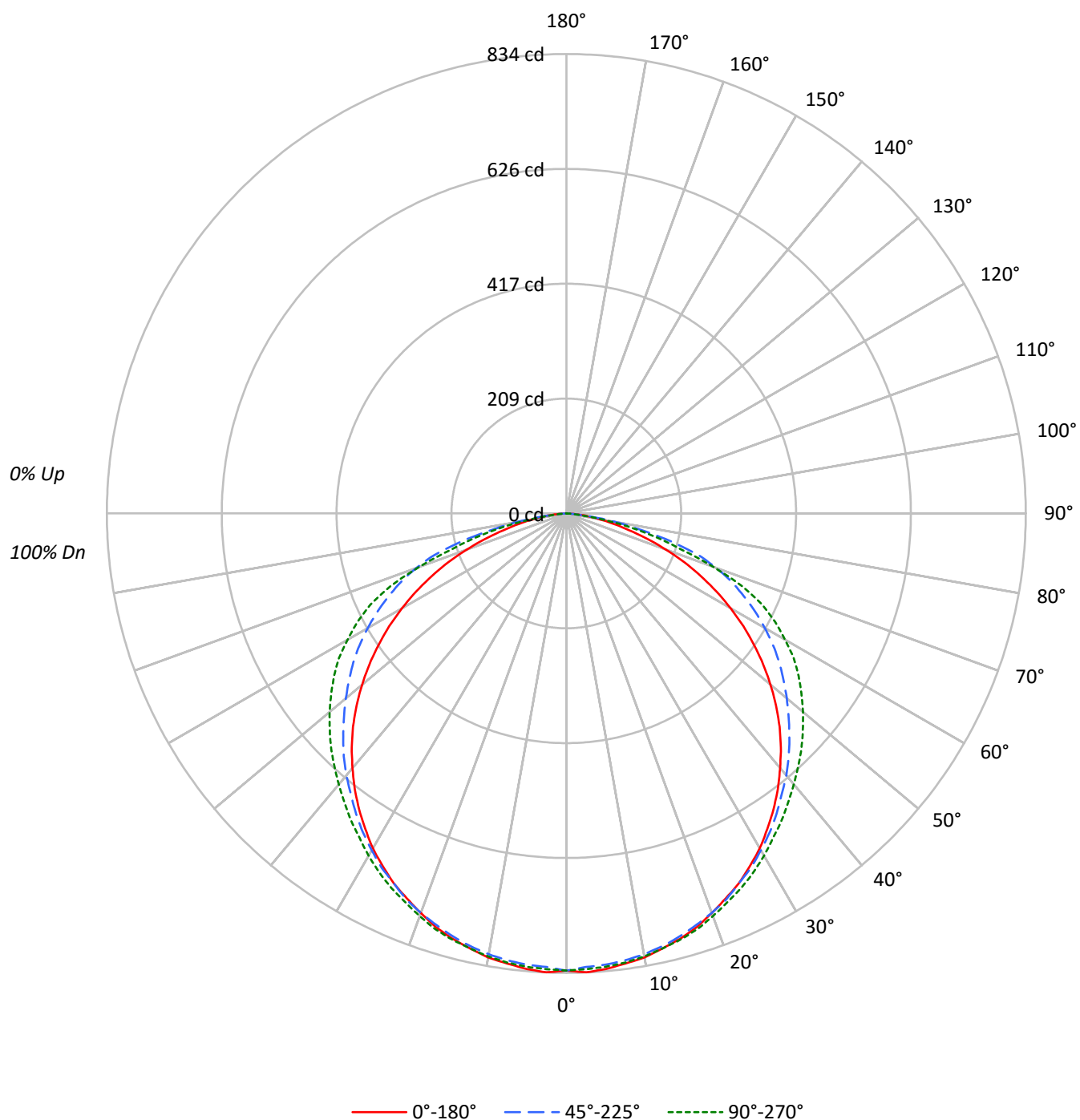
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2233	2233	2233
5°	2242	2221	2232
10°	2236	2220	2231
15°	2226	2215	2231
20°	2210	2210	2227
25°	2200	2200	2229
30°	2182	2194	2230
35°	2154	2186	2237
40°	2120	2181	2256
45°	2084	2179	2297
50°	2025	2187	2349
55°	1951	2214	2414
60°	1854	2238	2468
65°	1712	2267	2500
70°	1522	2283	2238
75°	1227	2051	1790
80°	959	1440	1168
85°	658	417	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.2
10°-20°	225.4	9.1
20°-30°	343.2	13.8
30°-40°	418.0	16.9
40°-50°	443.5	17.9
50°-60°	418.5	16.9
60°-70°	337.9	13.6
70°-80°	183.3	7.4
80°-90°	29.7	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°	647.1	26.1
0°-40°	1065.1	43.0
0°-60°	1927.1	77.8
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	830	828	822	828	826	79
15°	799	797	795	801	801	225
25°	741	739	741	749	751	341
35°	656	660	666	679	681	410
45°	548	555	573	594	604	422
55°	416	433	472	503	515	372
65°	269	302	356	385	393	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°	829.9	829.9	829.9	829.9	829.9
2.5°	833.8	829.9	824.1	829.9	828.0
5°	829.9	828.0	822.2	828.0	826.1
7.5°	824.1	824.1	818.3	822.2	822.2
10°	818.3	816.4	812.5	818.3	816.4
12.5°	808.7	806.7	804.8	810.6	808.7
15°	799.0	797.1	795.1	800.9	800.9
17.5°	787.4	785.4	783.5	791.3	791.3
20°	771.9	771.9	771.9	779.6	777.7
22.5°	756.4	756.4	758.4	766.1	764.2
25°	741.0	739.0	741.0	748.7	750.6
27.5°	721.6	723.5	725.5	733.2	735.1
30°	702.3	704.2	706.1	715.8	717.7
32.5°	679.0	682.9	686.8	698.4	698.4
35°	655.8	659.7	665.5	679.0	681.0
37.5°	630.7	634.6	642.3	657.8	661.6
40°	603.6	609.4	621.0	636.5	642.3
42.5°	576.5	584.3	597.8	615.2	622.9
45°	547.5	555.2	572.6	593.9	603.6
47.5°	516.5	526.2	547.5	574.6	582.3
50°	483.7	497.2	522.3	551.4	561.0
52.5°	450.8	466.2	497.2	528.1	537.8
55°	415.9	433.4	472.0	503.0	514.6
57.5°	381.1	400.5	445.0	477.8	489.5
60°	344.4	367.6	415.9	448.8	458.5
62.5°	307.6	334.7	386.9	419.8	427.5
65°	268.9	301.8	356.0	385.0	392.7
67.5°	232.2	270.8	325.0	346.3	346.3
70°	193.5	236.0	290.2	296.0	284.4
72.5°	154.8	203.1	251.5	230.2	220.5
75°	118.0	172.2	197.3	178.0	172.2
77.5°	89.0	139.3	139.3	127.7	123.8
80°	61.9	106.4	92.9	81.3	75.4
82.5°	40.6	60.0	48.4	38.7	32.9
85°	21.3	23.2	13.5	11.6	9.7
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)