

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: P307453

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP125-W2A-U-5000K**

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: P307453
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-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2400.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

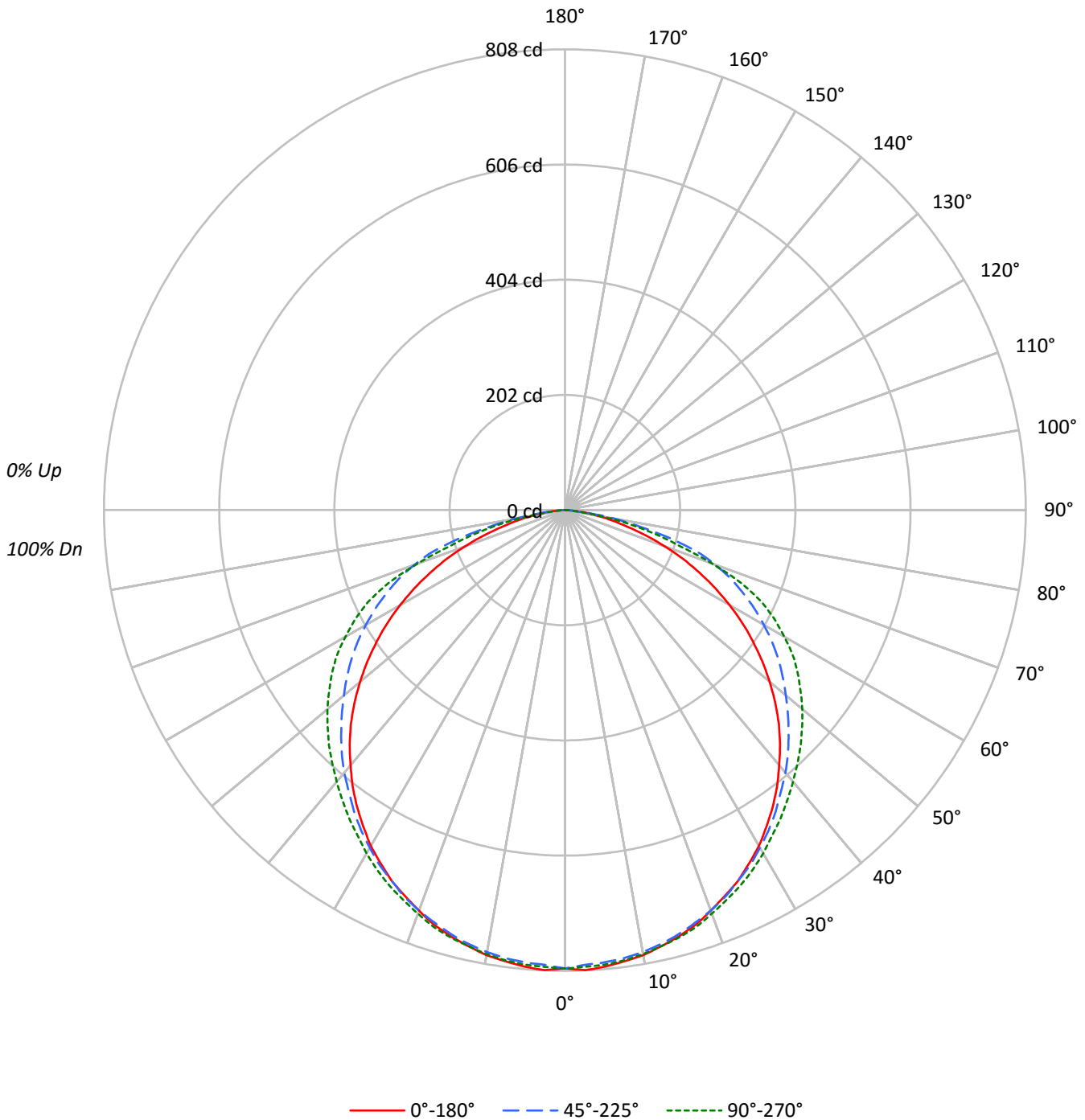
Input Watts (W): 34.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2163	2163	2163
5°	2171	2151	2161
10°	2166	2150	2161
15°	2156	2145	2161
20°	2141	2141	2157
25°	2131	2131	2159
30°	2114	2125	2160
35°	2087	2118	2167
40°	2054	2113	2185
45°	2018	2111	2225
50°	1961	2118	2275
55°	1890	2145	2338
60°	1795	2168	2390
65°	1658	2195	2422
70°	1474	2212	2167
75°	1188	1987	1734
80°	930	1393	1133
85°	636	404	290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.2
10°-20°	218.3	9.1
20°-30°	332.4	13.8
30°-40°	404.8	16.9
40°-50°	429.5	17.9
50°-60°	405.4	16.9
60°-70°	327.3	13.6
70°-80°	177.6	7.4
80°-90°	28.7	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°	626.7	26.1
0°-40°	1031.6	43.0
0°-60°	1866.4	77.8
0°-90°	2400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	804	802	796	802	800	76
15°	774	772	770	776	776	218
25°	718	716	718	725	727	330
35°	635	639	645	658	660	397
45°	530	538	555	575	585	408
55°	403	420	457	487	498	360
65°	260	292	345	373	380	258
75°	114	167	191	172	167	125
85°	21	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°	803.8	803.8	803.8	803.8	803.8
2.5°	807.6	803.8	798.2	803.8	801.9
5°	803.8	801.9	796.3	801.9	800.1
7.5°	798.2	798.2	792.6	796.3	796.3
10°	792.6	790.7	787.0	792.6	790.7
12.5°	783.2	781.3	779.5	785.1	783.2
15°	773.8	772.0	770.1	775.7	775.7
17.5°	762.6	760.7	758.9	766.3	766.3
20°	747.6	747.6	747.6	755.1	753.2
22.5°	732.6	732.6	734.5	742.0	740.1
25°	717.6	715.8	717.6	725.1	727.0
27.5°	698.9	700.8	702.6	710.1	712.0
30°	680.2	682.0	683.9	693.3	695.1
32.5°	657.7	661.4	665.2	676.4	676.4
35°	635.2	638.9	644.6	657.7	659.5
37.5°	610.8	614.6	622.1	637.1	640.8
40°	584.6	590.2	601.5	616.5	622.1
42.5°	558.4	565.9	579.0	595.8	603.3
45°	530.3	537.8	554.6	575.2	584.6
47.5°	500.3	509.6	530.3	556.5	564.0
50°	468.4	481.5	505.9	534.0	543.4
52.5°	436.6	451.6	481.5	511.5	520.9
55°	402.8	419.7	457.2	487.2	498.4
57.5°	369.1	387.9	431.0	462.8	474.0
60°	333.5	356.0	402.8	434.7	444.1
62.5°	297.9	324.2	374.7	406.6	414.1
65°	260.4	292.3	344.8	372.9	380.4
67.5°	224.8	262.3	314.8	335.4	335.4
70°	187.4	228.6	281.1	286.7	275.4
72.5°	149.9	196.7	243.6	223.0	213.6
75°	114.3	166.8	191.1	172.4	166.8
77.5°	86.2	134.9	134.9	123.7	119.9
80°	60.0	103.1	89.9	78.7	73.1
82.5°	39.3	58.1	46.8	37.5	31.9
85°	20.6	22.5	13.1	11.2	9.4
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)