

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: P307455

Luminaire Tested: **14FCZ2-39-UNV-L82765-RDP-CP125-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: P307455
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-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" POLYCARB 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: 2430.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

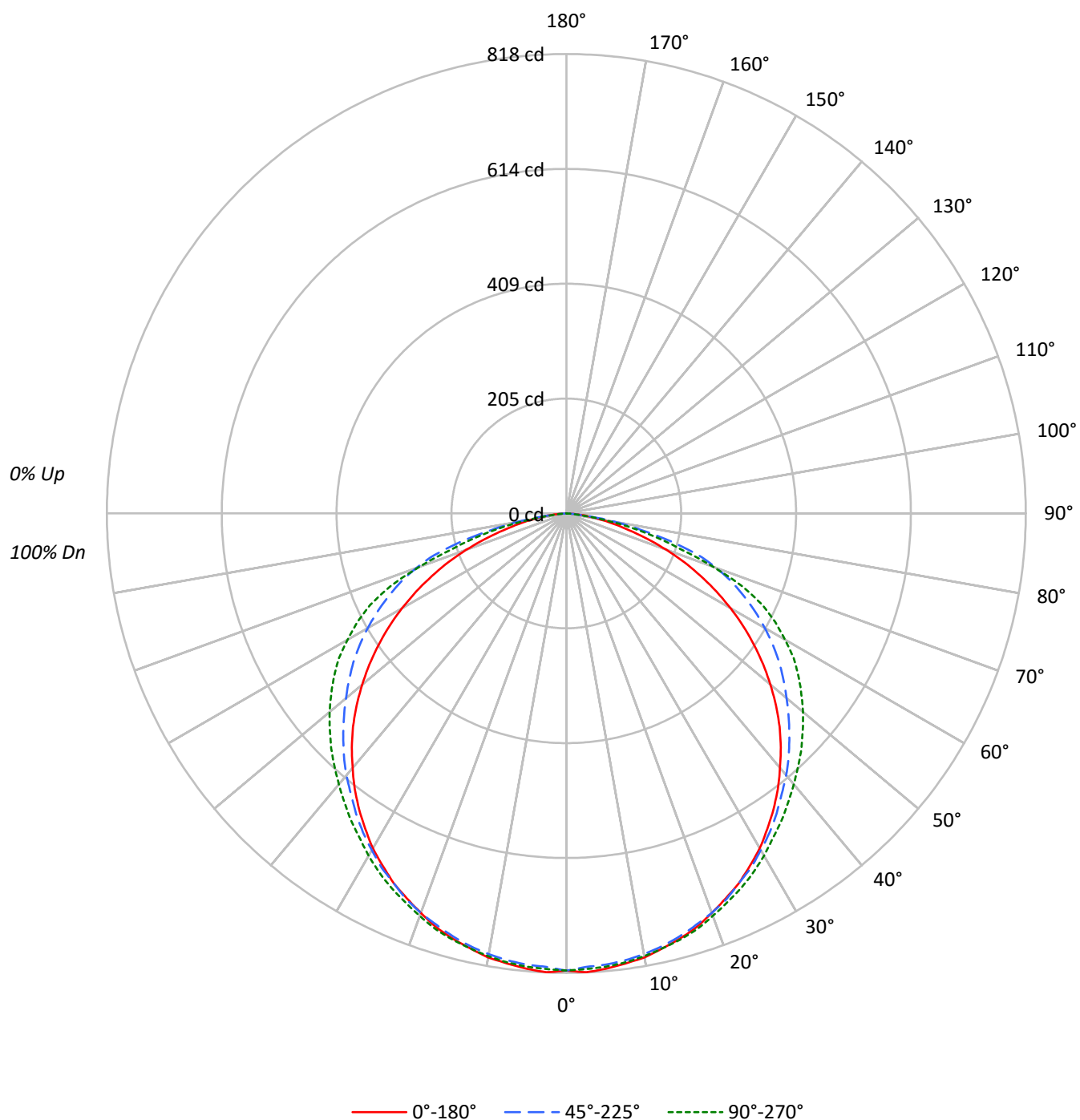
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2190	2190	2190
5°	2199	2178	2188
10°	2193	2177	2188
15°	2183	2172	2188
20°	2168	2168	2184
25°	2157	2157	2186
30°	2140	2152	2187
35°	2113	2144	2194
40°	2079	2139	2212
45°	2043	2137	2253
50°	1986	2144	2303
55°	1914	2172	2367
60°	1817	2195	2420
65°	1679	2223	2452
70°	1493	2239	2194
75°	1203	2012	1755
80°	941	1412	1147
85°	645	411	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.2
10°-20°	221.0	9.1
20°-30°	336.5	13.8
30°-40°	409.9	16.9
40°-50°	434.9	17.9
50°-60°	410.4	16.9
60°-70°	331.4	13.6
70°-80°	179.8	7.4
80°-90°	29.1	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°	634.6	26.1
0°-40°	1044.5	43.0
0°-60°	1889.8	77.8
0°-90°	2430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	814	812	806	812	810	77
15°	784	782	780	785	785	221
25°	727	725	727	734	736	335
35°	643	647	653	666	668	402
45°	537	544	562	582	592	413
55°	408	425	463	493	505	364
65°	264	296	349	378	385	261
75°	116	169	194	174	169	126
85°	21	23	13	11	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.9	813.9	813.9	813.9	813.9
2.5°	817.7	813.9	808.2	813.9	812.0
5°	813.9	812.0	806.3	812.0	810.1
7.5°	808.2	808.2	802.5	806.3	806.3
10°	802.5	800.6	796.8	802.5	800.6
12.5°	793.0	791.1	789.2	794.9	793.0
15°	783.5	781.6	779.7	785.4	785.4
17.5°	772.1	770.2	768.3	775.9	775.9
20°	757.0	757.0	757.0	764.5	762.6
22.5°	741.8	741.8	743.7	751.3	749.4
25°	726.6	724.7	726.6	734.2	736.1
27.5°	707.6	709.5	711.4	719.0	720.9
30°	688.7	690.6	692.5	701.9	703.8
32.5°	665.9	669.7	673.5	684.9	684.9
35°	643.1	646.9	652.6	665.9	667.8
37.5°	618.5	622.3	629.8	645.0	648.8
40°	591.9	597.6	609.0	624.2	629.8
42.5°	565.3	572.9	586.2	603.3	610.9
45°	536.9	544.5	561.6	582.4	591.9
47.5°	506.5	516.0	536.9	563.4	571.0
50°	474.3	487.6	512.2	540.7	550.2
52.5°	442.0	457.2	487.6	517.9	527.4
55°	407.9	425.0	462.9	493.3	504.6
57.5°	373.7	392.7	436.3	468.6	480.0
60°	337.7	360.5	407.9	440.1	449.6
62.5°	301.6	328.2	379.4	411.7	419.3
65°	263.7	296.0	349.1	377.5	385.1
67.5°	227.7	265.6	318.7	339.6	339.6
70°	189.7	231.4	284.6	290.3	278.9
72.5°	151.8	199.2	246.6	225.8	216.3
75°	115.7	168.8	193.5	174.5	168.8
77.5°	87.3	136.6	136.6	125.2	121.4
80°	60.7	104.3	91.1	79.7	74.0
82.5°	39.8	58.8	47.4	37.9	32.3
85°	20.9	22.8	13.3	11.4	9.5
87.5°	7.6	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)