

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: P307936

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-3500K**

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: P307936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 3500K 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: 3313.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

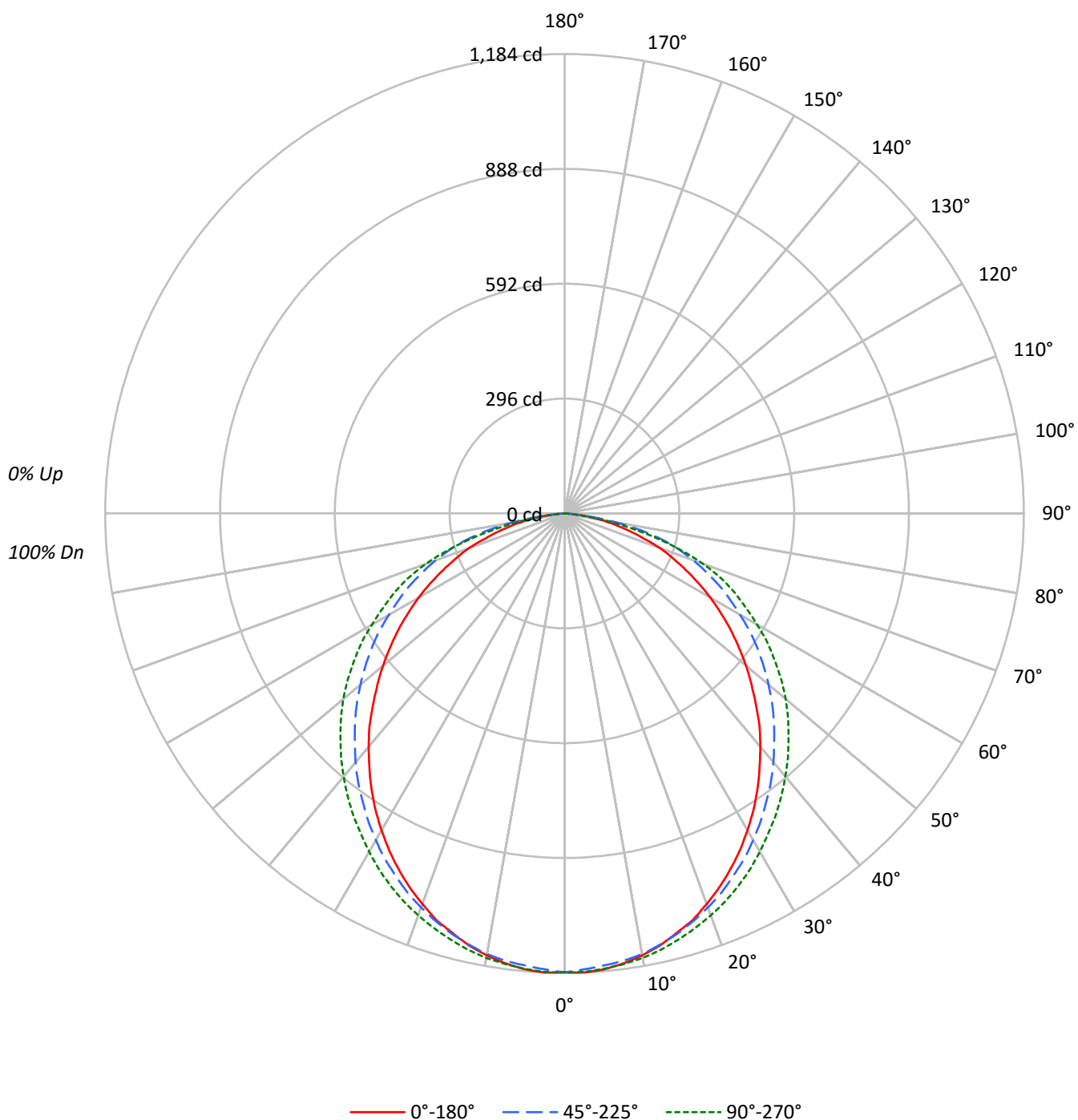
Input Watts (W): 29.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3183	3183	3183
5°	3186	3159	3182
10°	3160	3151	3178
15°	3116	3126	3167
20°	3067	3095	3156
25°	3004	3058	3146
30°	2930	3022	3129
35°	2849	2979	3119
40°	2758	2943	3110
45°	2657	2907	3107
50°	2558	2874	3115
55°	2451	2852	3106
60°	2334	2812	3085
65°	2197	2803	3086
70°	2068	2779	2998
75°	1794	2716	2562
80°	1450	2190	1706
85°	963	760	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.4
10°-20°	317.8	9.6
20°-30°	476.7	14.4
30°-40°	568.7	17.2
40°-50°	587.9	17.7
50°-60°	536.7	16.2
60°-70°	422.4	12.7
70°-80°	245.9	7.4
80°-90°	45.3	1.4
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°	906.2	27.4
0°-40°	1474.8	44.5
0°-60°	2599.4	78.5
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1179	1176	1170	1179	1178	112
15°	1119	1120	1122	1137	1137	316
25°	1012	1017	1030	1055	1060	466
35°	867	879	907	941	949	542
45°	698	721	764	806	816	539
55°	522	550	608	652	662	467
65°	345	381	440	475	485	343
75°	172	214	261	256	246	183
85°	31	44	25	20	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.7	1182.7	1182.7	1182.7	1182.7
2.5°	1184.3	1181.0	1176.1	1184.3	1182.7
5°	1179.4	1176.1	1169.5	1179.4	1177.8
7.5°	1169.5	1166.3	1163.0	1172.8	1171.2
10°	1156.4	1154.8	1153.1	1164.6	1163.0
12.5°	1140.0	1140.0	1138.3	1151.5	1151.5
15°	1118.6	1120.3	1121.9	1136.7	1136.7
17.5°	1098.9	1097.3	1102.2	1118.6	1120.3
20°	1071.0	1074.3	1080.8	1100.6	1102.2
22.5°	1043.1	1046.3	1057.8	1077.6	1082.5
25°	1011.9	1016.8	1029.9	1054.6	1059.5
27.5°	979.0	985.6	1003.6	1029.9	1034.9
30°	942.9	952.7	972.4	1002.0	1006.9
32.5°	906.7	916.6	941.2	970.8	977.4
35°	867.3	878.8	906.7	941.2	949.4
37.5°	826.2	841.0	873.9	908.4	918.2
40°	785.2	801.6	837.7	873.9	885.4
42.5°	744.1	760.5	800.0	841.0	852.5
45°	698.1	721.1	763.8	806.5	816.4
47.5°	653.8	678.4	726.0	768.7	781.9
50°	611.1	635.7	686.6	731.0	744.1
52.5°	566.7	593.0	647.2	693.2	704.7
55°	522.4	550.3	607.8	652.1	662.0
57.5°	478.0	507.6	566.7	609.4	620.9
60°	433.7	464.9	522.4	565.1	573.3
62.5°	389.3	422.2	481.3	519.1	527.3
65°	345.0	381.1	440.2	474.7	484.6
67.5°	302.2	338.4	395.9	428.7	436.9
70°	262.8	295.7	353.2	377.8	381.1
72.5°	213.5	254.6	310.5	323.6	315.4
75°	172.5	213.5	261.2	256.2	246.4
77.5°	131.4	172.5	203.7	187.3	174.1
80°	93.6	134.7	141.3	116.6	110.1
82.5°	60.8	93.6	78.8	60.8	49.3
85°	31.2	44.4	24.6	19.7	16.4
87.5°	9.9	6.6	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)