

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: P307937

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-4000K**

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: P307937
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-4000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 4000K 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: 3386.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

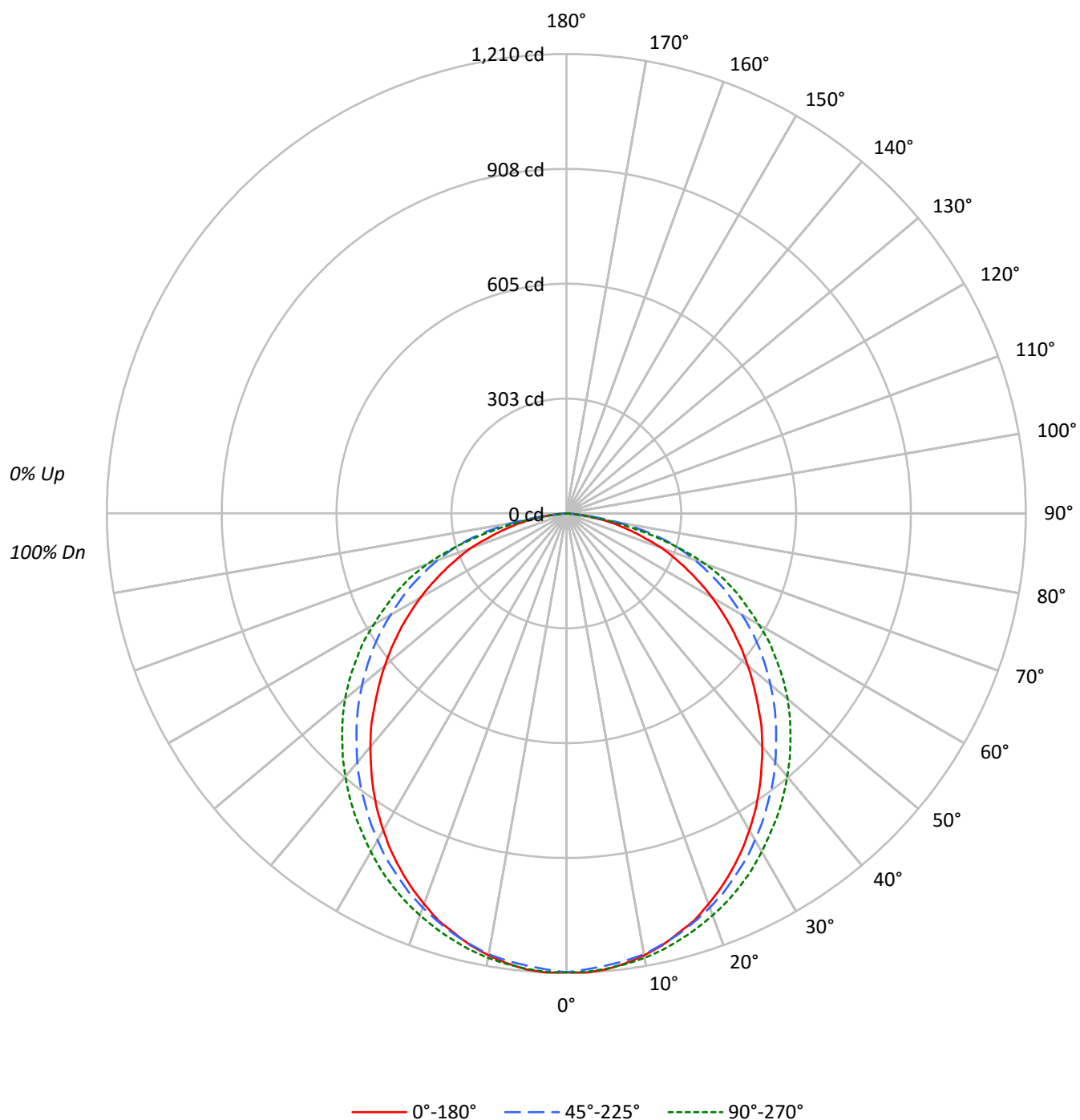
Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3253	3253	3253
5°	3256	3229	3252
10°	3230	3220	3248
15°	3185	3194	3236
20°	3135	3164	3226
25°	3070	3125	3215
30°	2994	3088	3198
35°	2912	3044	3188
40°	2819	3008	3179
45°	2715	2971	3175
50°	2614	2938	3184
55°	2505	2914	3174
60°	2385	2873	3153
65°	2245	2865	3154
70°	2113	2840	3065
75°	1833	2775	2618
80°	1483	2238	1743
85°	985	778	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.4
10°-20°	324.8	9.6
20°-30°	487.2	14.4
30°-40°	581.2	17.2
40°-50°	600.8	17.7
50°-60°	548.6	16.2
60°-70°	431.7	12.7
70°-80°	251.3	7.4
80°-90°	46.3	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°	926.1	27.4
0°-40°	1507.3	44.5
0°-60°	2656.7	78.5
0°-90°	3386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1205	1202	1195	1205	1204	114
15°	1143	1145	1147	1162	1162	323
25°	1034	1039	1053	1078	1083	476
35°	886	898	927	962	970	554
45°	714	737	781	824	834	551
55°	534	562	621	666	677	477
65°	353	390	450	485	495	350
75°	176	218	267	262	252	187
85°	32	45	25	20	17	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1210.4	1207.1	1202.0	1210.4	1208.7
5°	1205.4	1202.0	1195.3	1205.4	1203.7
7.5°	1195.3	1192.0	1188.6	1198.7	1197.0
10°	1181.9	1180.2	1178.5	1190.3	1188.6
12.5°	1165.1	1165.1	1163.4	1176.8	1176.8
15°	1143.3	1145.0	1146.6	1161.7	1161.7
17.5°	1123.1	1121.4	1126.5	1143.3	1145.0
20°	1094.6	1097.9	1104.7	1124.8	1126.5
22.5°	1066.0	1069.4	1081.2	1101.3	1106.3
25°	1034.1	1039.2	1052.6	1077.8	1082.8
27.5°	1000.6	1007.3	1025.8	1052.6	1057.7
30°	963.6	973.7	993.9	1024.1	1029.1
32.5°	926.7	936.8	962.0	992.2	998.9
35°	886.4	898.2	926.7	962.0	970.4
37.5°	844.4	859.6	893.1	928.4	938.5
40°	802.5	819.3	856.2	893.1	904.9
42.5°	760.5	777.3	817.6	859.6	871.3
45°	713.5	737.0	780.6	824.3	834.4
47.5°	668.2	693.4	742.0	785.7	799.1
50°	624.5	649.7	701.7	747.1	760.5
52.5°	579.2	606.1	661.5	708.5	720.2
55°	533.9	562.4	621.2	666.5	676.6
57.5°	488.5	518.8	579.2	622.8	634.6
60°	443.2	475.1	533.9	577.5	585.9
62.5°	397.9	431.5	491.9	530.5	538.9
65°	352.6	389.5	449.9	485.2	495.3
67.5°	308.9	345.8	404.6	438.2	446.6
70°	268.6	302.2	360.9	386.1	389.5
72.5°	218.2	260.2	317.3	330.7	322.3
75°	176.3	218.2	266.9	261.9	251.8
77.5°	134.3	176.3	208.2	191.4	178.0
80°	95.7	137.7	144.4	119.2	112.5
82.5°	62.1	95.7	80.6	62.1	50.4
85°	31.9	45.3	25.2	20.1	16.8
87.5°	10.1	6.7	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)