

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: P307950

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-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: P307950
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-CP125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 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: 3467.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

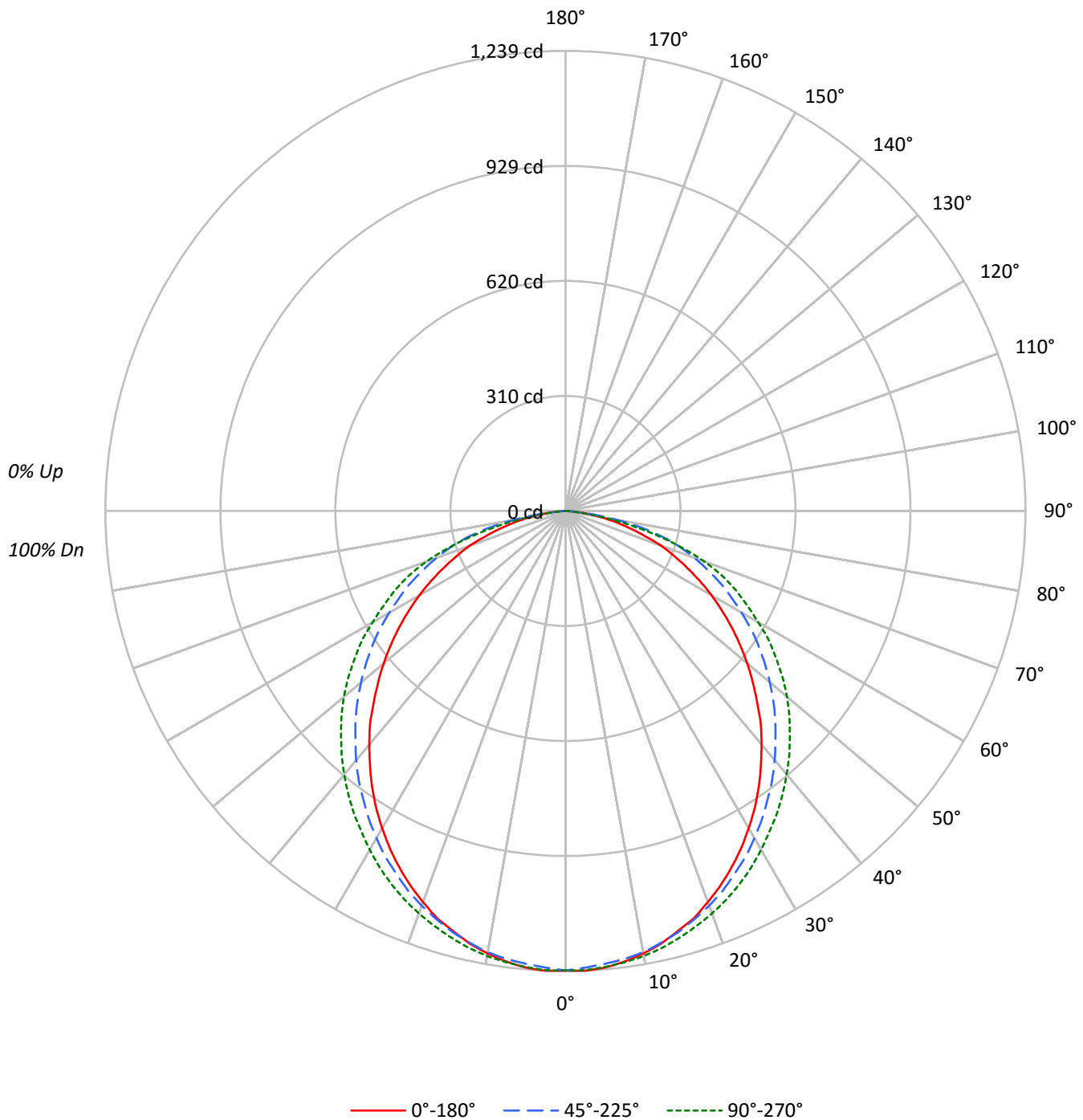
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3331	3331	3331
5°	3334	3306	3329
10°	3307	3297	3325
15°	3261	3271	3314
20°	3210	3239	3303
25°	3144	3200	3292
30°	3066	3162	3274
35°	2982	3117	3264
40°	2886	3080	3255
45°	2780	3042	3251
50°	2677	3008	3260
55°	2564	2984	3250
60°	2442	2942	3229
65°	2299	2933	3229
70°	2164	2908	3138
75°	1877	2842	2680
80°	1519	2290	1785
85°	1010	797	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.4
10°-20°	332.6	9.6
20°-30°	498.9	14.4
30°-40°	595.1	17.2
40°-50°	615.2	17.7
50°-60°	561.7	16.2
60°-70°	442.0	12.7
70°-80°	257.3	7.4
80°-90°	47.4	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°	948.3	27.4
0°-40°	1543.4	44.5
0°-60°	2720.3	78.5
0°-90°	3467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1234	1231	1224	1234	1232	117
15°	1171	1172	1174	1190	1190	330
25°	1059	1064	1078	1104	1109	488
35°	908	920	949	985	994	567
45°	731	755	799	844	854	564
55°	547	576	636	682	693	489
65°	361	399	461	497	507	358
75°	180	224	273	268	258	192
85°	33	46	26	21	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1239.4	1235.9	1230.8	1239.4	1237.7
5°	1234.2	1230.8	1223.9	1234.2	1232.5
7.5°	1223.9	1220.5	1217.0	1227.3	1225.6
10°	1210.2	1208.4	1206.7	1218.8	1217.0
12.5°	1193.0	1193.0	1191.2	1205.0	1205.0
15°	1170.6	1172.3	1174.1	1189.5	1189.5
17.5°	1150.0	1148.3	1153.4	1170.6	1172.3
20°	1120.8	1124.2	1131.1	1151.7	1153.4
22.5°	1091.5	1095.0	1107.0	1127.6	1132.8
25°	1058.9	1064.0	1077.8	1103.6	1108.7
27.5°	1024.5	1031.4	1050.3	1077.8	1083.0
30°	986.7	997.0	1017.6	1048.6	1053.7
32.5°	948.9	959.2	985.0	1015.9	1022.8
35°	907.6	919.7	948.9	985.0	993.6
37.5°	864.6	880.1	914.5	950.6	960.9
40°	821.7	838.9	876.7	914.5	926.5
42.5°	778.7	795.9	837.1	880.1	892.1
45°	730.6	754.6	799.3	844.0	854.3
47.5°	684.2	709.9	759.8	804.5	818.2
50°	639.5	665.2	718.5	764.9	778.7
52.5°	593.0	620.5	677.3	725.4	737.4
55°	546.6	575.9	636.0	682.4	692.7
57.5°	500.2	531.2	593.0	637.7	649.8
60°	453.8	486.5	546.6	591.3	599.9
62.5°	407.4	441.8	503.7	543.2	551.8
65°	361.0	398.8	460.7	496.8	507.1
67.5°	316.3	354.1	414.3	448.7	457.2
70°	275.0	309.4	369.6	395.4	398.8
72.5°	223.5	266.4	324.9	338.6	330.0
75°	180.5	223.5	273.3	268.2	257.8
77.5°	137.5	180.5	213.2	196.0	182.2
80°	98.0	141.0	147.8	122.0	115.2
82.5°	63.6	98.0	82.5	63.6	51.6
85°	32.7	46.4	25.8	20.6	17.2
87.5°	10.3	6.9	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)