

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: P307966

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP250-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: P307966
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-CP250-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" 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: 3253.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

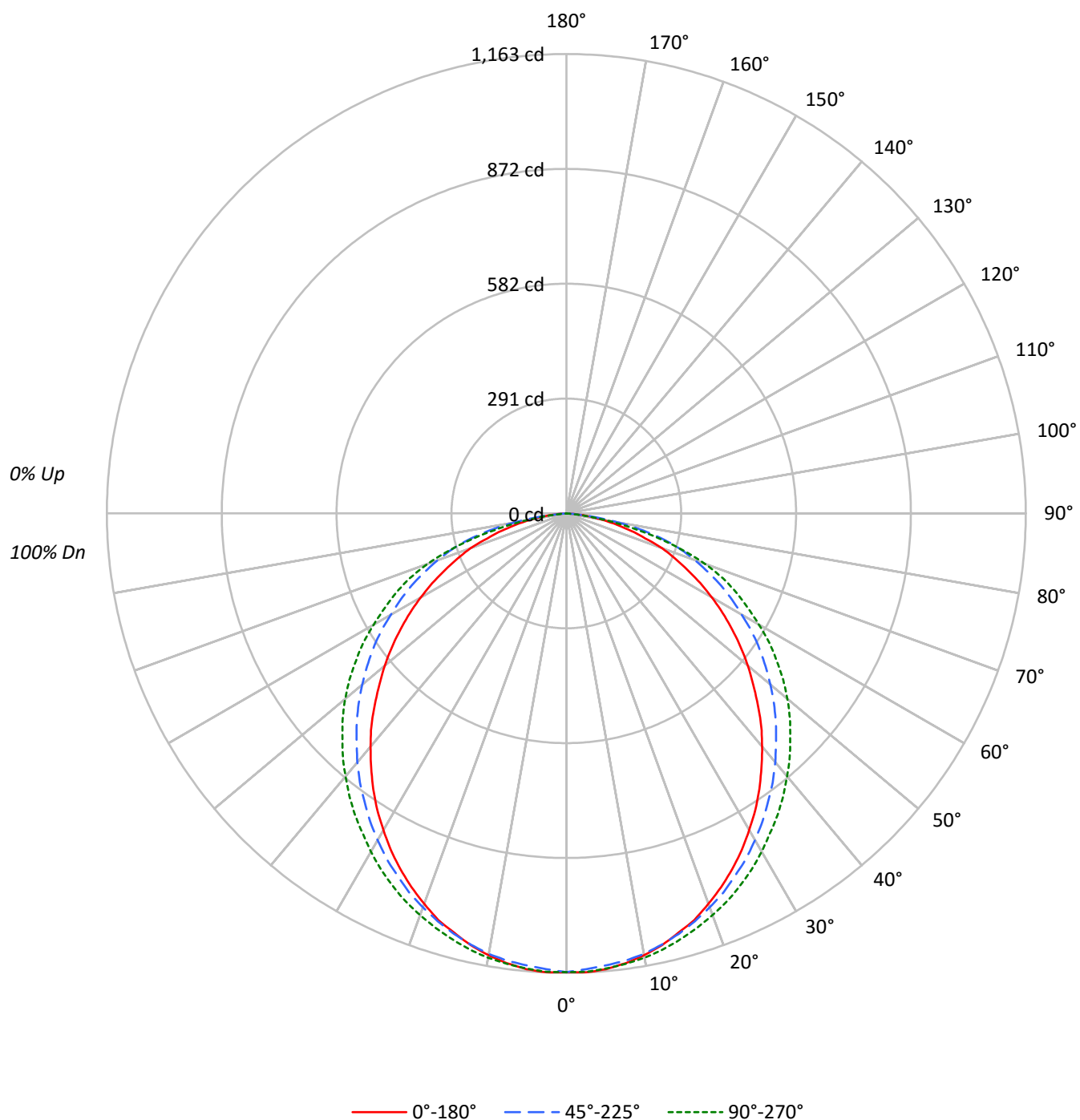
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	3125	3125	3125
5°	3128	3102	3124
10°	3103	3094	3120
15°	3060	3069	3109
20°	3011	3039	3099
25°	2950	3003	3089
30°	2877	2967	3072
35°	2798	2925	3062
40°	2708	2890	3054
45°	2609	2854	3051
50°	2512	2822	3059
55°	2406	2800	3050
60°	2292	2760	3030
65°	2157	2752	3030
70°	2031	2729	2944
75°	1761	2666	2515
80°	1424	2149	1675
85°	945	747	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.4
10°-20°	312.0	9.6
20°-30°	468.1	14.4
30°-40°	558.4	17.2
40°-50°	577.2	17.7
50°-60°	527.0	16.2
60°-70°	414.7	12.7
70°-80°	241.4	7.4
80°-90°	44.5	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°	889.8	27.4
0°-40°	1448.1	44.5
0°-60°	2552.4	78.5
0°-90°	3253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1158	1155	1148	1158	1156	110
15°	1098	1100	1102	1116	1116	310
25°	994	998	1011	1036	1040	457
35°	852	863	890	924	932	532
45°	686	708	750	792	802	529
55°	513	540	597	640	650	459
65°	339	374	432	466	476	336
75°	169	210	256	252	242	180
85°	31	44	24	19	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1162.9	1159.7	1154.8	1162.9	1161.3
5°	1158.0	1154.8	1148.4	1158.0	1156.4
7.5°	1148.4	1145.1	1141.9	1151.6	1150.0
10°	1135.5	1133.8	1132.2	1143.5	1141.9
12.5°	1119.3	1119.3	1117.7	1130.6	1130.6
15°	1098.4	1100.0	1101.6	1116.1	1116.1
17.5°	1079.0	1077.4	1082.2	1098.4	1100.0
20°	1051.6	1054.8	1061.3	1080.6	1082.2
22.5°	1024.2	1027.4	1038.7	1058.0	1062.9
25°	993.5	998.4	1011.3	1035.5	1040.3
27.5°	961.3	967.7	985.5	1011.3	1016.1
30°	925.8	935.5	954.8	983.9	988.7
32.5°	890.3	900.0	924.2	953.2	959.7
35°	851.6	862.9	890.3	924.2	932.2
37.5°	811.3	825.8	858.0	891.9	901.6
40°	771.0	787.1	822.6	858.0	869.3
42.5°	730.6	746.8	785.5	825.8	837.1
45°	685.5	708.1	750.0	791.9	801.6
47.5°	641.9	666.1	712.9	754.8	767.7
50°	600.0	624.2	674.2	717.7	730.6
52.5°	556.4	582.2	635.5	680.6	691.9
55°	512.9	540.3	596.8	640.3	650.0
57.5°	469.3	498.4	556.4	598.4	609.7
60°	425.8	456.4	512.9	554.8	562.9
62.5°	382.3	414.5	472.6	509.7	517.7
65°	338.7	374.2	432.2	466.1	475.8
67.5°	296.8	332.3	388.7	421.0	429.0
70°	258.1	290.3	346.8	371.0	374.2
72.5°	209.7	250.0	304.8	317.7	309.7
75°	169.4	209.7	256.4	251.6	241.9
77.5°	129.0	169.4	200.0	183.9	171.0
80°	91.9	132.3	138.7	114.5	108.1
82.5°	59.7	91.9	77.4	59.7	48.4
85°	30.6	43.5	24.2	19.4	16.1
87.5°	9.7	6.5	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)