

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: P307609

Luminaire Tested: **14FCZ2-25-UNV-L82765-CP250-W2A-U-6500K**

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: P307609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-UNV-L82765-CP250-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.250" POLYCARB SHEET
Light Source: (168) 6500K 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: 2274.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

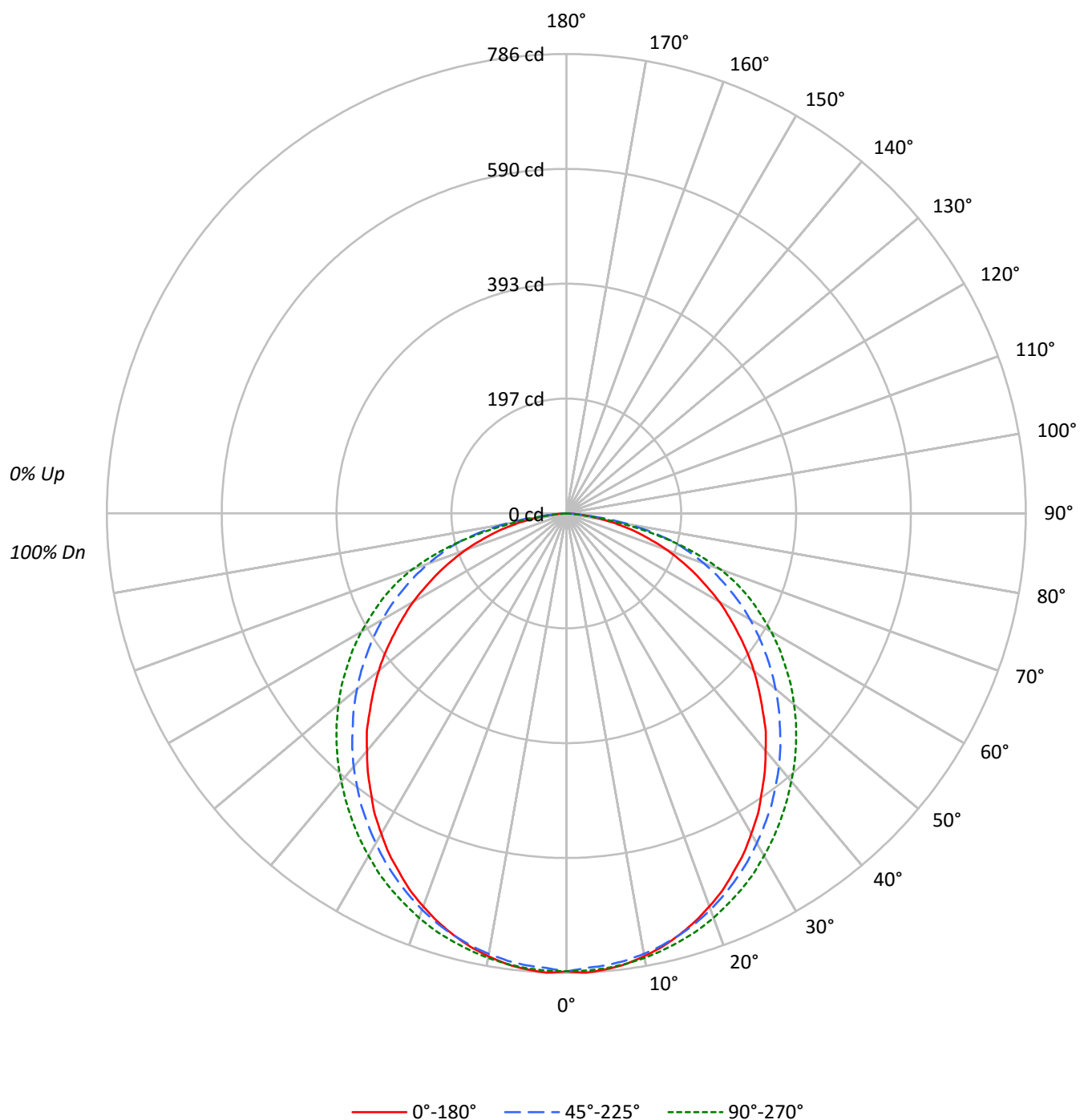
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2108	2108	2108
5°	2115	2097	2109
10°	2102	2091	2110
15°	2079	2081	2109
20°	2049	2066	2108
25°	2010	2046	2106
30°	1966	2025	2102
35°	1914	2007	2100
40°	1863	1988	2103
45°	1806	1966	2115
50°	1753	1957	2129
55°	1687	1951	2148
60°	1626	1954	2178
65°	1543	1960	2211
70°	1448	1975	2210
75°	1313	1993	1998
80°	1077	1720	1423
85°	800	815	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.3
10°-20°	211.8	9.3
20°-30°	319.0	14.0
30°-40°	382.8	16.8
40°-50°	399.0	17.5
50°-60°	369.4	16.2
60°-70°	298.4	13.1
70°-80°	182.0	8.0
80°-90°	37.6	1.7
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°	604.9	26.6
0°-40°	987.7	43.4
0°-60°	1756.0	77.2
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	783	781	776	782	781	74
15°	746	747	747	757	757	210
25°	677	681	689	706	709	312
35°	583	592	611	633	639	365
45°	475	489	517	546	556	367
55°	360	378	416	448	458	322
65°	242	266	308	339	347	240
75°	126	154	192	195	192	133
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.4	783.4	783.4	783.4	783.4
2.5°	786.4	783.9	778.3	783.9	782.9
5°	782.9	780.9	776.3	781.9	780.9
7.5°	777.8	775.8	771.7	778.3	777.3
10°	769.2	768.2	765.1	772.8	772.2
12.5°	759.1	758.6	757.0	765.7	765.1
15°	746.4	746.9	746.9	757.0	757.0
17.5°	732.2	733.2	735.2	746.4	747.9
20°	715.5	717.5	721.5	734.2	736.2
22.5°	698.2	699.7	705.8	721.0	723.1
25°	676.9	681.0	689.1	706.3	709.4
27.5°	656.6	660.2	671.3	689.1	694.2
30°	632.8	638.4	651.6	670.8	676.4
32.5°	610.0	616.1	631.3	653.6	658.7
35°	582.6	591.7	611.0	633.3	639.4
37.5°	557.8	566.4	588.2	612.5	619.6
40°	530.4	541.0	565.9	591.7	598.8
42.5°	505.0	515.2	542.0	568.4	578.0
45°	474.6	488.8	516.7	545.6	555.7
47.5°	446.7	460.9	492.9	523.8	532.9
50°	418.8	434.0	467.5	499.4	508.6
52.5°	389.9	406.2	442.2	474.1	484.7
55°	359.5	378.3	415.8	448.2	457.9
57.5°	330.6	349.9	389.9	422.9	432.5
60°	302.2	322.0	363.1	394.5	404.6
62.5°	270.8	294.1	336.7	367.6	375.2
65°	242.4	266.2	307.8	338.7	347.3
67.5°	212.5	238.3	279.9	308.3	316.4
70°	184.1	210.9	251.0	277.4	280.9
72.5°	153.6	181.0	221.6	238.3	238.3
75°	126.3	154.1	191.7	194.7	192.2
77.5°	96.3	127.3	151.6	145.5	139.4
80°	69.5	99.9	111.0	99.9	91.8
82.5°	46.6	72.5	66.9	53.2	47.2
85°	25.9	38.5	26.4	14.7	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)