

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: P307585

Luminaire Tested: **14FCZ2-25-UNV-L82765-CP125-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: P307585
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-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB 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: 2237.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

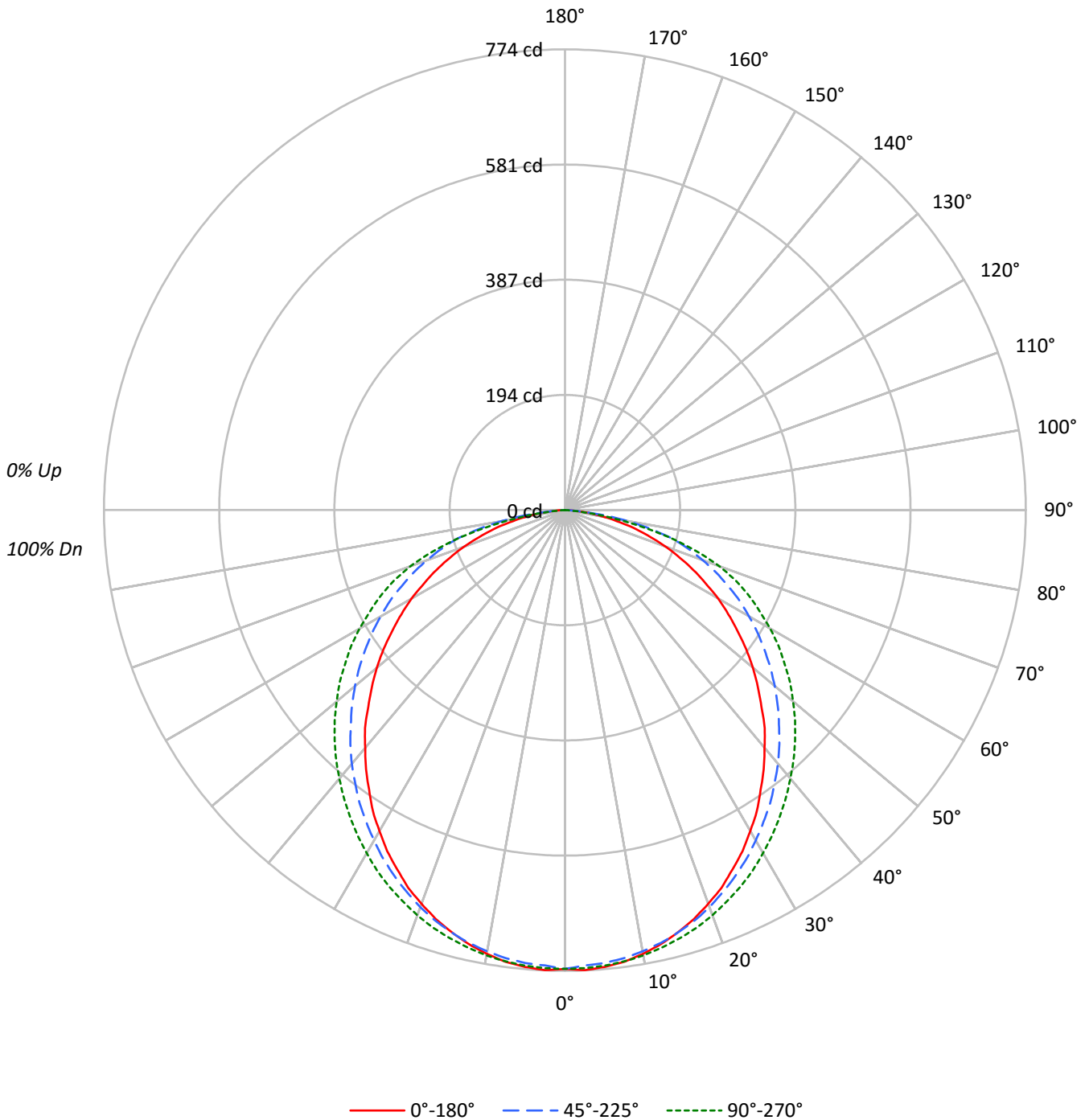
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2074	2074	2074
5°	2081	2063	2075
10°	2068	2057	2076
15°	2045	2047	2075
20°	2015	2033	2074
25°	1977	2013	2072
30°	1934	1992	2068
35°	1883	1975	2066
40°	1833	1956	2069
45°	1777	1934	2081
50°	1725	1925	2094
55°	1659	1919	2113
60°	1600	1922	2142
65°	1518	1928	2176
70°	1425	1943	2174
75°	1291	1960	1965
80°	1058	1692	1399
85°	784	800	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.3
10°-20°	208.3	9.3
20°-30°	313.8	14.0
30°-40°	376.6	16.8
40°-50°	392.5	17.5
50°-60°	363.4	16.2
60°-70°	293.6	13.1
70°-80°	179.0	8.0
80°-90°	37.0	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°	595.0	26.6
0°-40°	971.6	43.4
0°-60°	1727.5	77.2
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	770	768	764	769	768	73
15°	734	735	735	745	745	207
25°	666	670	678	695	698	307
35°	573	582	601	623	629	359
45°	467	481	508	537	547	361
55°	354	372	409	441	450	317
65°	238	262	303	333	342	236
75°	124	152	188	192	189	130
85°	25	38	26	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.7	770.7	770.7	770.7	770.7
2.5°	773.6	771.2	765.7	771.2	770.2
5°	770.2	768.2	763.7	769.2	768.2
7.5°	765.2	763.2	759.2	765.7	764.7
10°	756.7	755.7	752.7	760.2	759.7
12.5°	746.7	746.2	744.7	753.2	752.7
15°	734.2	734.7	734.7	744.7	744.7
17.5°	720.3	721.3	723.3	734.2	735.7
20°	703.8	705.8	709.8	722.3	724.3
22.5°	686.9	688.4	694.3	709.3	711.3
25°	665.9	669.9	677.9	694.8	697.8
27.5°	646.0	649.4	660.4	677.9	682.9
30°	622.5	628.0	641.0	659.9	665.4
32.5°	600.1	606.0	621.0	643.0	647.9
35°	573.1	582.1	601.1	623.0	629.0
37.5°	548.7	557.2	578.6	602.6	609.5
40°	521.8	532.2	556.7	582.1	589.1
42.5°	496.8	506.8	533.2	559.2	568.6
45°	466.9	480.8	508.3	536.7	546.7
47.5°	439.4	453.4	484.8	515.3	524.2
50°	412.0	427.0	459.9	491.3	500.3
52.5°	383.6	399.5	435.0	466.4	476.9
55°	353.7	372.1	409.0	440.9	450.4
57.5°	325.2	344.2	383.6	416.0	425.5
60°	297.3	316.7	357.1	388.1	398.0
62.5°	266.4	289.3	331.2	361.6	369.1
65°	238.4	261.9	302.8	333.2	341.7
67.5°	209.0	234.4	275.3	303.3	311.3
70°	181.1	207.5	246.9	272.8	276.3
72.5°	151.1	178.1	218.0	234.4	234.4
75°	124.2	151.6	188.5	191.5	189.0
77.5°	94.8	125.2	149.1	143.2	137.2
80°	68.3	98.3	109.2	98.3	90.3
82.5°	45.9	71.3	65.8	52.4	46.4
85°	25.4	37.9	25.9	14.5	10.5
87.5°	9.5	8.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)