

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: P307855

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-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: P307855
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: 14FCZ2-25-UNV-L82765-S-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH 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: 2261.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

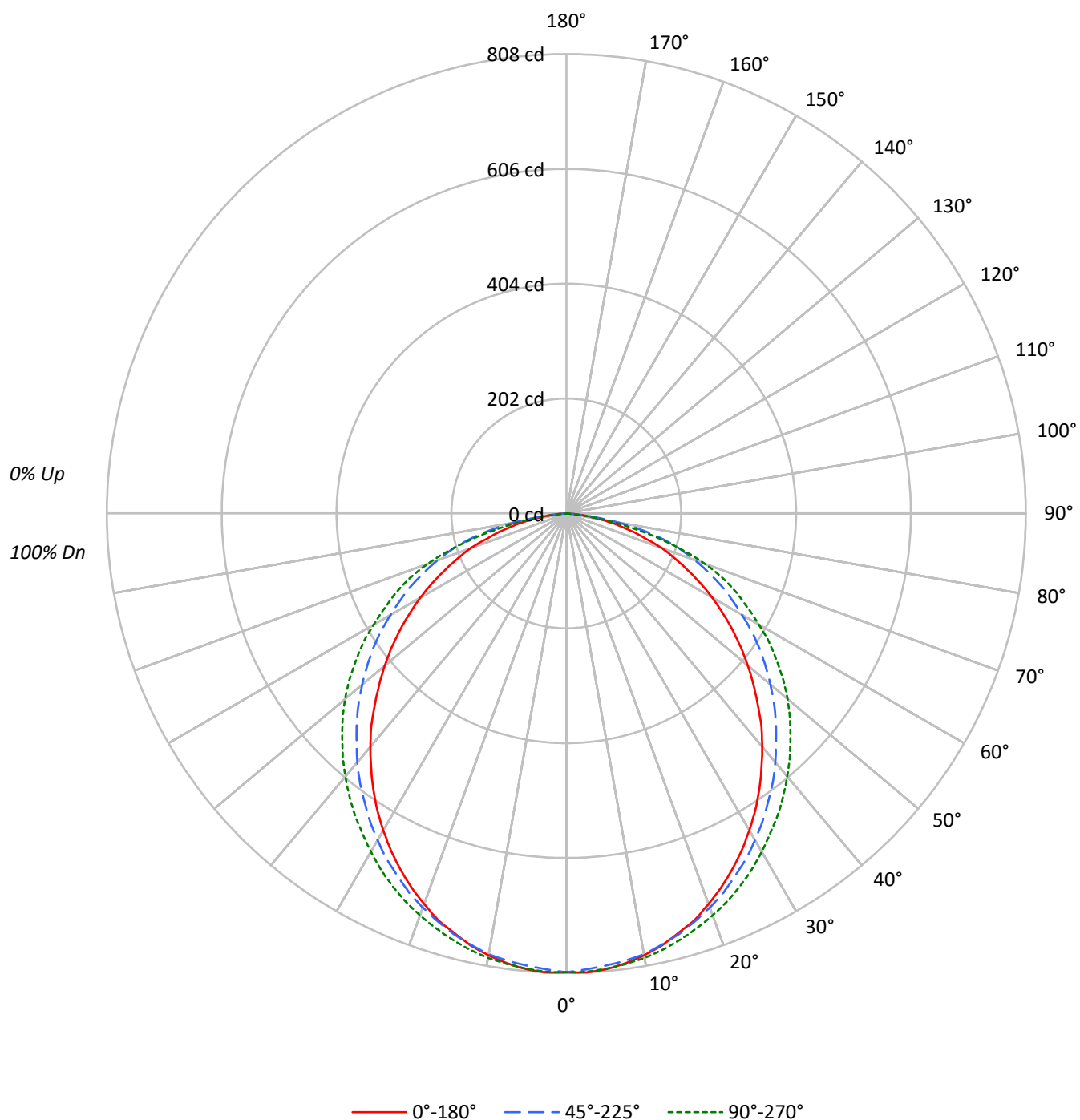
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2172	2172	2172
5°	2174	2156	2171
10°	2156	2150	2169
15°	2127	2133	2161
20°	2093	2112	2154
25°	2051	2087	2147
30°	2000	2062	2135
35°	1944	2033	2129
40°	1883	2008	2122
45°	1813	1984	2120
50°	1746	1962	2126
55°	1673	1946	2120
60°	1593	1919	2105
65°	1499	1913	2106
70°	1412	1896	2046
75°	1224	1853	1749
80°	990	1494	1164
85°	658	519	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.4
10°-20°	216.9	9.6
20°-30°	325.3	14.4
30°-40°	388.1	17.2
40°-50°	401.2	17.7
50°-60°	366.3	16.2
60°-70°	288.3	12.7
70°-80°	167.8	7.4
80°-90°	30.9	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°	618.4	27.4
0°-40°	1006.5	44.5
0°-60°	1774.0	78.5
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	805	803	798	805	804	76
15°	763	764	766	776	776	215
25°	691	694	703	720	723	318
35°	592	600	619	642	648	370
45°	476	492	521	550	557	368
55°	356	376	415	445	452	319
65°	235	260	300	324	331	234
75°	118	146	178	175	168	125
85°	21	30	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.1	807.1	807.1	807.1	807.1
2.5°	808.3	806.0	802.7	808.3	807.1
5°	804.9	802.7	798.2	804.9	803.8
7.5°	798.2	795.9	793.7	800.4	799.3
10°	789.2	788.1	787.0	794.8	793.7
12.5°	778.0	778.0	776.9	785.8	785.8
15°	763.4	764.5	765.7	775.8	775.8
17.5°	750.0	748.8	752.2	763.4	764.5
20°	730.9	733.2	737.6	751.1	752.2
22.5°	711.9	714.1	721.9	735.4	738.8
25°	690.6	693.9	702.9	719.7	723.1
27.5°	668.1	672.6	684.9	702.9	706.2
30°	643.5	650.2	663.6	683.8	687.2
32.5°	618.8	625.5	642.3	662.5	667.0
35°	591.9	599.7	618.8	642.3	648.0
37.5°	563.9	574.0	596.4	619.9	626.7
40°	535.9	547.1	571.7	596.4	604.2
42.5°	507.8	519.0	545.9	574.0	581.8
45°	476.4	492.1	521.3	550.4	557.2
47.5°	446.2	463.0	495.5	524.6	533.6
50°	417.0	433.8	468.6	498.9	507.8
52.5°	386.8	404.7	441.7	473.1	480.9
55°	356.5	375.5	414.8	445.0	451.8
57.5°	326.2	346.4	386.8	415.9	423.7
60°	296.0	317.3	356.5	385.6	391.2
62.5°	265.7	288.1	328.5	354.2	359.8
65°	235.4	260.1	300.4	324.0	330.7
67.5°	206.3	230.9	270.2	292.6	298.2
70°	179.4	201.8	241.0	257.8	260.1
72.5°	145.7	173.8	211.9	220.8	215.2
75°	117.7	145.7	178.2	174.9	168.2
77.5°	89.7	117.7	139.0	127.8	118.8
80°	63.9	91.9	96.4	79.6	75.1
82.5°	41.5	63.9	53.8	41.5	33.6
85°	21.3	30.3	16.8	13.5	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)