

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: P307591

Luminaire Tested: **14FCZ2-25-UNV-L82765-CP125-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: P307591
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-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" 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

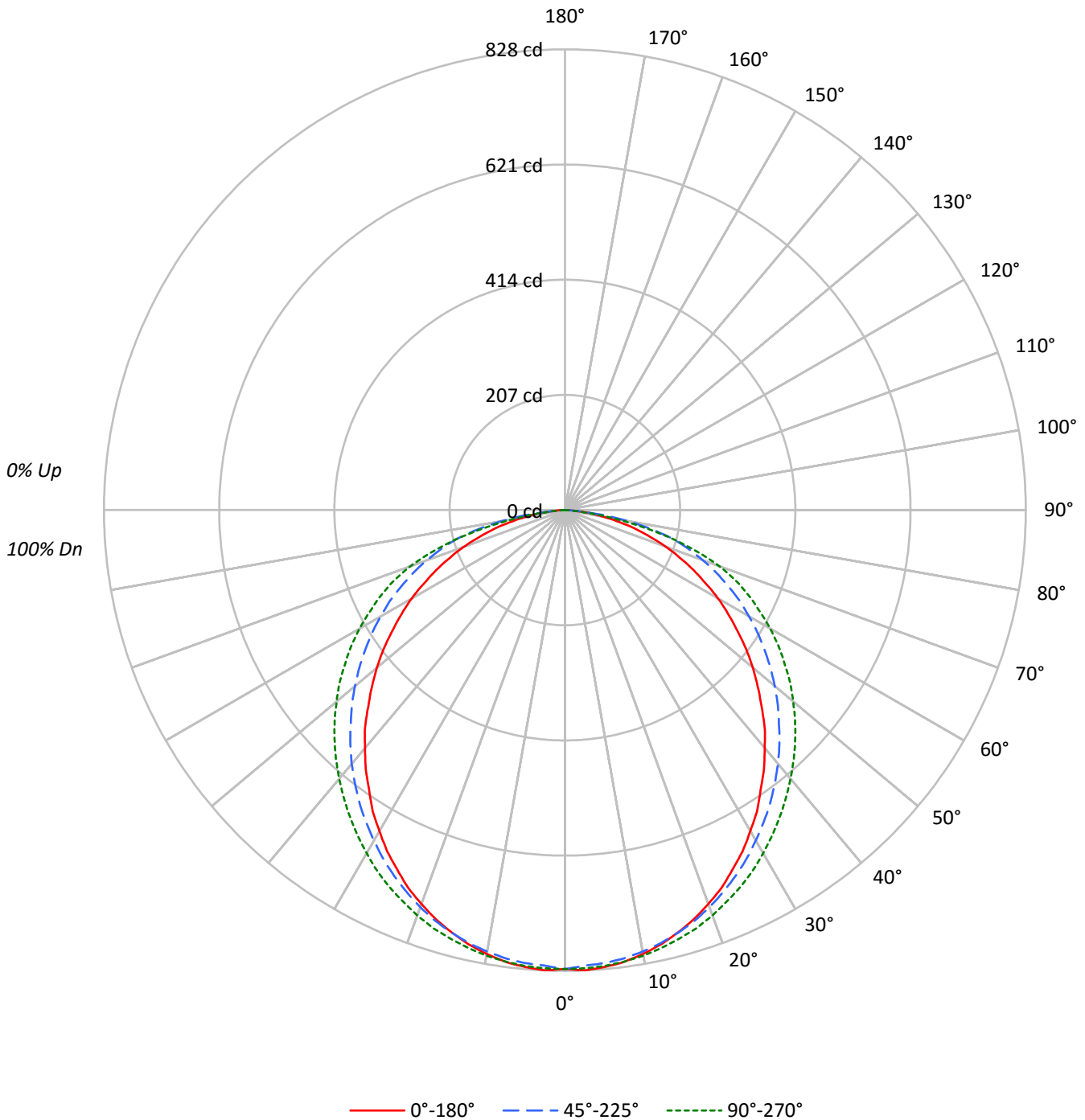
Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (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°	2219	2219	2219
5°	2226	2208	2221
10°	2213	2201	2222
15°	2189	2191	2220
20°	2157	2175	2220
25°	2116	2154	2217
30°	2070	2131	2213
35°	2015	2113	2211
40°	1962	2093	2214
45°	1901	2070	2227
50°	1846	2061	2241
55°	1776	2054	2261
60°	1713	2057	2293
65°	1625	2063	2329
70°	1525	2079	2327
75°	1382	2098	2103
80°	1133	1812	1497
85°	840	858	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.3
10°-20°	222.9	9.3
20°-30°	335.8	14.0
30°-40°	403.0	16.8
40°-50°	420.0	17.5
50°-60°	388.9	16.2
60°-70°	314.2	13.1
70°-80°	191.6	8.0
80°-90°	39.6	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°	636.8	26.6
0°-40°	1039.8	43.4
0°-60°	1848.7	77.2
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	824	822	817	823	822	78
15°	786	786	786	797	797	222
25°	713	717	726	744	747	328
35°	613	623	643	667	673	384
45°	500	515	544	574	585	386
55°	378	398	438	472	482	339
65°	255	280	324	357	366	252
75°	133	162	202	205	202	140
85°	27	41	28	16	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.7	824.7	824.7	824.7	824.7
2.5°	827.9	825.3	819.4	825.3	824.2
5°	824.2	822.1	817.3	823.1	822.1
7.5°	818.9	816.7	812.5	819.4	818.3
10°	809.8	808.7	805.5	813.5	813.0
12.5°	799.1	798.6	797.0	806.1	805.5
15°	785.8	786.3	786.3	797.0	797.0
17.5°	770.8	771.9	774.0	785.8	787.4
20°	753.2	755.3	759.6	773.0	775.1
22.5°	735.1	736.7	743.1	759.1	761.2
25°	712.6	716.9	725.5	743.6	746.8
27.5°	691.3	695.0	706.8	725.5	730.8
30°	666.2	672.1	685.9	706.2	712.1
32.5°	642.2	648.6	664.6	688.1	693.4
35°	613.4	623.0	643.2	666.7	673.1
37.5°	587.2	596.3	619.2	644.8	652.3
40°	558.4	569.6	595.7	623.0	630.4
42.5°	531.7	542.4	570.6	598.4	608.5
45°	499.6	514.6	544.0	574.4	585.1
47.5°	470.3	485.2	518.9	551.4	561.0
50°	440.9	456.9	492.2	525.8	535.4
52.5°	410.5	427.6	465.5	499.1	510.3
55°	378.5	398.2	437.7	471.9	482.0
57.5°	348.0	368.3	410.5	445.2	455.3
60°	318.2	339.0	382.2	415.3	426.0
62.5°	285.1	309.6	354.5	387.0	395.0
65°	255.2	280.3	324.0	356.6	365.7
67.5°	223.7	250.9	294.7	324.6	333.1
70°	193.8	222.1	264.2	292.0	295.7
72.5°	161.7	190.6	233.3	250.9	250.9
75°	132.9	162.3	201.8	205.0	202.3
77.5°	101.4	134.0	159.6	153.2	146.8
80°	73.1	105.2	116.9	105.2	96.6
82.5°	49.1	76.3	70.5	56.1	49.6
85°	27.2	40.6	27.8	15.5	11.2
87.5°	10.1	9.1	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)