

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: P307723

Luminaire Tested: **14FCZ2-39-UNV-L82765-CP125-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: P307723
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: 14FCZ2-39-UNV-L82765-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" 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: 3740.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

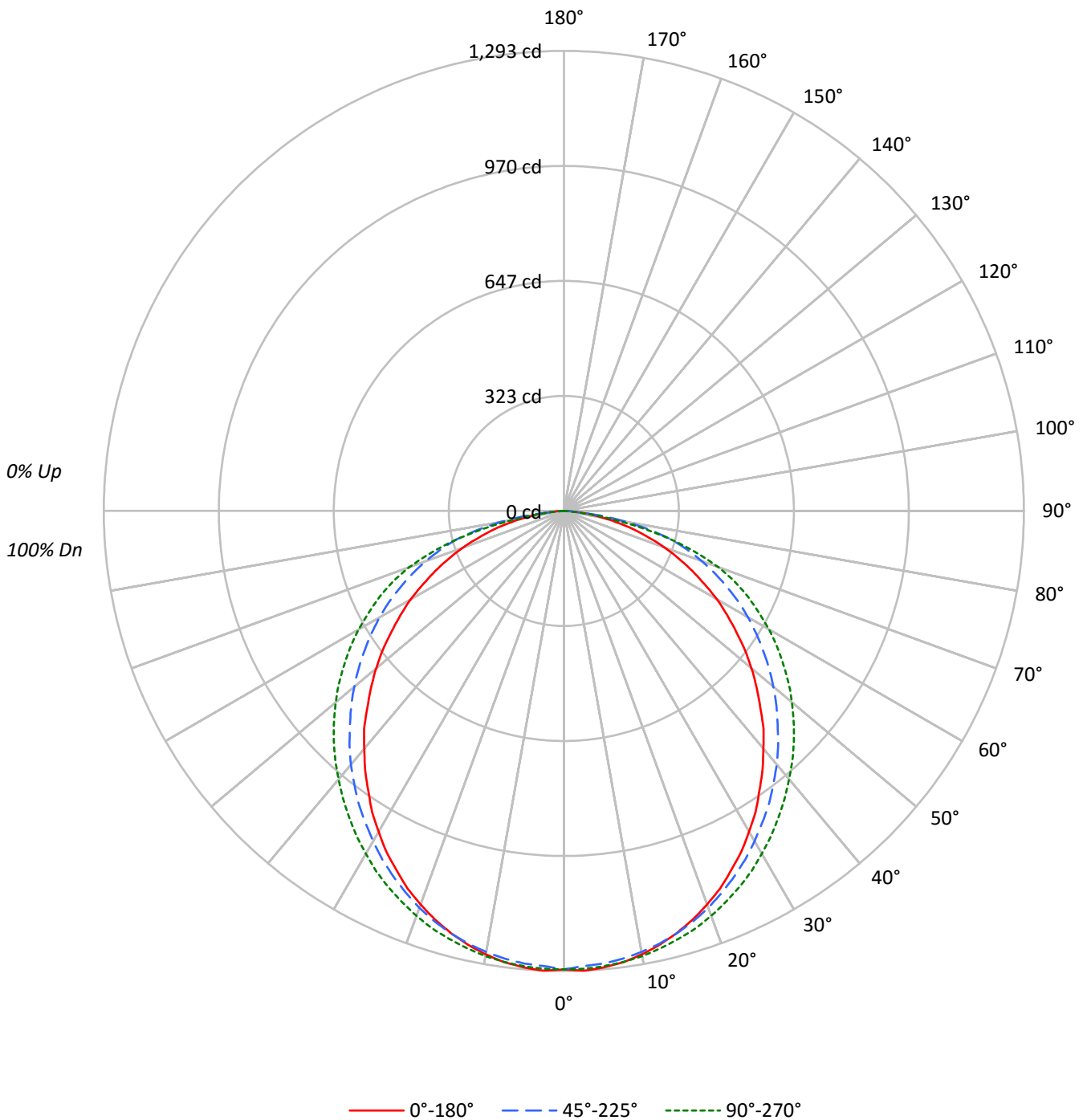
Input Watts (W): 34.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3467	3467	3467
5°	3478	3449	3469
10°	3457	3439	3471
15°	3420	3422	3469
20°	3370	3398	3468
25°	3306	3365	3464
30°	3234	3330	3457
35°	3148	3301	3455
40°	3064	3269	3460
45°	2971	3234	3478
50°	2884	3219	3502
55°	2774	3208	3533
60°	2675	3214	3582
65°	2538	3223	3638
70°	2382	3248	3635
75°	2159	3277	3287
80°	1771	2830	2338
85°	1312	1340	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.3
10°-20°	348.3	9.3
20°-30°	524.6	14.0
30°-40°	629.6	16.8
40°-50°	656.2	17.5
50°-60°	607.5	16.2
60°-70°	490.8	13.1
70°-80°	299.3	8.0
80°-90°	61.8	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°	994.8	26.6
0°-40°	1624.4	43.4
0°-60°	2888.1	77.2
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1288	1284	1277	1286	1284	122
15°	1228	1228	1228	1245	1245	346
25°	1113	1120	1133	1162	1167	513
35°	958	973	1005	1042	1052	600
45°	781	804	850	897	914	603
55°	591	622	684	737	753	530
65°	399	438	506	557	571	394
75°	208	254	315	320	316	218
85°	42	63	43	24	18	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.4	1288.4	1288.4	1288.4	1288.4
2.5°	1293.4	1289.3	1280.1	1289.3	1287.6
5°	1287.6	1284.3	1276.8	1285.9	1284.3
7.5°	1279.3	1275.9	1269.3	1280.1	1278.4
10°	1265.1	1263.4	1258.4	1270.9	1270.1
12.5°	1248.4	1247.6	1245.1	1259.3	1258.4
15°	1227.6	1228.4	1228.4	1245.1	1245.1
17.5°	1204.2	1205.9	1209.2	1227.6	1230.1
20°	1176.7	1180.0	1186.7	1207.5	1210.9
22.5°	1148.3	1150.8	1160.8	1185.9	1189.2
25°	1113.3	1120.0	1133.3	1161.7	1166.7
27.5°	1080.0	1085.8	1104.1	1133.3	1141.7
30°	1040.8	1049.9	1071.6	1103.3	1112.5
32.5°	1003.2	1013.2	1038.3	1075.0	1083.3
35°	958.2	973.2	1004.9	1041.6	1051.6
37.5°	917.3	931.5	967.4	1007.4	1019.1
40°	872.3	889.8	930.7	973.2	984.9
42.5°	830.6	847.3	891.5	934.9	950.7
45°	780.6	803.9	849.8	897.3	914.0
47.5°	734.7	758.1	810.6	861.5	876.5
50°	688.8	713.9	768.9	821.4	836.4
52.5°	641.3	668.0	727.2	779.7	797.2
55°	591.3	622.1	683.8	737.2	753.1
57.5°	543.7	575.4	641.3	695.5	711.4
60°	497.0	529.6	597.1	648.8	665.5
62.5°	445.3	483.7	553.7	604.6	617.1
65°	398.6	437.8	506.2	557.1	571.3
67.5°	349.4	392.0	460.3	507.0	520.4
70°	302.7	346.9	412.8	456.2	462.0
72.5°	252.7	297.7	364.4	392.0	392.0
75°	207.7	253.5	315.2	320.2	316.1
77.5°	158.4	209.3	249.3	239.3	229.3
80°	114.3	164.3	182.6	164.3	150.9
82.5°	76.7	119.3	110.1	87.6	77.6
85°	42.5	63.4	43.4	24.2	17.5
87.5°	15.8	14.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)