

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: P308012

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP250-W2A-U-5500K**

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: P308012
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: 14FCZ2-39-UNV-L82765-S-CP250-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB SHEET
Light Source: (168) 5500K 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: 3625.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

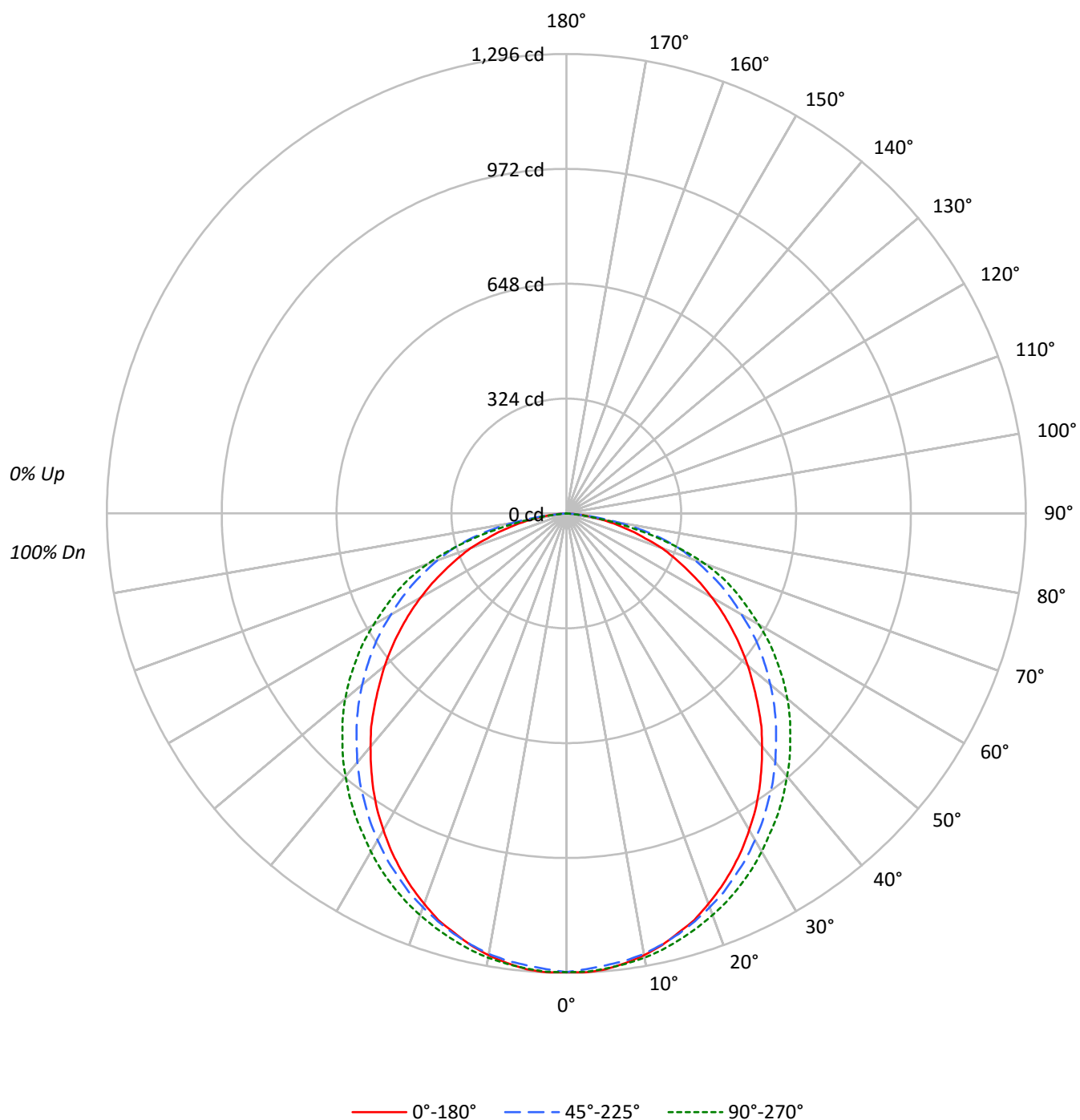
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3482	3482	3482
5°	3486	3457	3481
10°	3457	3448	3477
15°	3410	3420	3465
20°	3356	3387	3454
25°	3287	3346	3442
30°	3206	3306	3424
35°	3118	3259	3413
40°	3018	3220	3403
45°	2907	3181	3400
50°	2799	3145	3409
55°	2681	3120	3398
60°	2554	3076	3376
65°	2403	3067	3376
70°	2263	3040	3281
75°	1962	2972	2803
80°	1587	2396	1866
85°	1053	834	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.4
10°-20°	347.7	9.6
20°-30°	521.6	14.4
30°-40°	622.2	17.2
40°-50°	643.2	17.7
50°-60°	587.3	16.2
60°-70°	462.2	12.7
70°-80°	269.0	7.4
80°-90°	49.6	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°	991.5	27.4
0°-40°	1613.7	44.5
0°-60°	2844.2	78.5
0°-90°	3625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1290	1287	1280	1290	1289	122
15°	1224	1226	1228	1244	1244	345
25°	1107	1112	1127	1154	1159	510
35°	949	962	992	1030	1039	593
45°	764	789	836	882	893	590
55°	572	602	665	714	724	511
65°	377	417	482	519	530	375
75°	189	234	286	280	270	201
85°	34	48	27	22	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1295.9	1292.3	1286.9	1295.9	1294.1
5°	1290.5	1286.9	1279.7	1290.5	1288.7
7.5°	1279.7	1276.1	1272.5	1283.3	1281.5
10°	1265.3	1263.5	1261.7	1274.3	1272.5
12.5°	1247.3	1247.3	1245.5	1259.9	1259.9
15°	1224.0	1225.8	1227.6	1243.7	1243.7
17.5°	1202.4	1200.6	1206.0	1224.0	1225.8
20°	1171.8	1175.4	1182.6	1204.2	1206.0
22.5°	1141.3	1144.9	1157.5	1179.0	1184.4
25°	1107.1	1112.5	1126.9	1153.9	1159.3
27.5°	1071.2	1078.4	1098.2	1126.9	1132.3
30°	1031.7	1042.4	1064.0	1096.4	1101.8
32.5°	992.1	1002.9	1029.9	1062.2	1069.4
35°	949.0	961.6	992.1	1029.9	1038.8
37.5°	904.0	920.2	956.2	993.9	1004.7
40°	859.1	877.1	916.6	956.2	968.8
42.5°	814.2	832.2	875.3	920.2	932.8
45°	763.9	789.0	835.8	882.5	893.3
47.5°	715.3	742.3	794.4	841.1	855.5
50°	668.6	695.6	751.3	799.8	814.2
52.5°	620.1	648.8	708.1	758.5	771.0
55°	571.5	602.1	665.0	713.5	724.3
57.5°	523.0	555.4	620.1	666.8	679.4
60°	474.5	508.6	571.5	618.3	627.3
62.5°	426.0	461.9	526.6	568.0	576.9
65°	377.4	417.0	481.7	519.4	530.2
67.5°	330.7	370.2	433.2	469.1	478.1
70°	287.6	323.5	386.4	413.4	417.0
72.5°	233.7	278.6	339.7	354.1	345.1
75°	188.7	233.7	285.8	280.4	269.6
77.5°	143.8	188.7	222.9	204.9	190.5
80°	102.4	147.4	154.6	127.6	120.4
82.5°	66.5	102.4	86.3	66.5	53.9
85°	34.1	48.5	27.0	21.6	18.0
87.5°	10.8	7.2	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)