

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: P307994

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP125-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: P307994
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-CP125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" 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: 3816.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

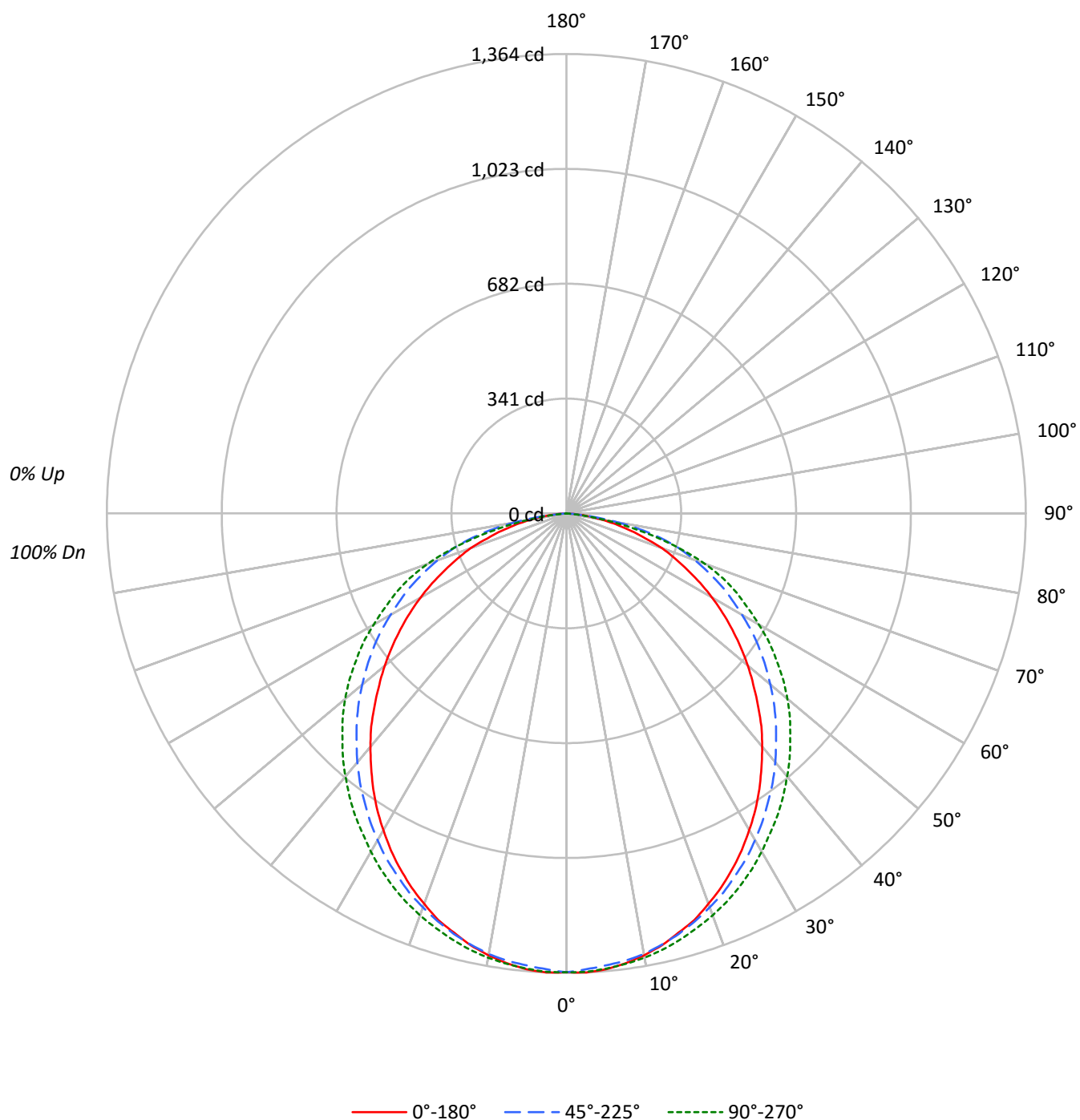
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307994

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P307994

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5500K

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°	3666	3666	3666
5°	3670	3639	3665
10°	3640	3629	3660
15°	3590	3600	3648
20°	3533	3565	3635
25°	3461	3522	3623
30°	3375	3480	3604
35°	3282	3431	3593
40°	3177	3390	3582
45°	3060	3348	3578
50°	2946	3311	3588
55°	2823	3284	3577
60°	2688	3238	3554
65°	2530	3229	3554
70°	2382	3201	3453
75°	2066	3127	2951
80°	1671	2521	1965
85°	1108	877	584



TEST NUMBER: P307994

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.4
10°-20°	366.0	9.6
20°-30°	549.1	14.4
30°-40°	655.0	17.2
40°-50°	677.1	17.7
50°-60°	618.2	16.2
60°-70°	486.5	12.7
70°-80°	283.2	7.4
80°-90°	52.2	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°	1043.8	27.4
0°-40°	1698.8	44.5
0°-60°	2994.1	78.5
0°-90°	3816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1358	1355	1347	1358	1357	129
15°	1288	1290	1292	1309	1309	364
25°	1166	1171	1186	1215	1220	537
35°	999	1012	1044	1084	1094	624
45°	804	831	880	929	940	621
55°	602	634	700	751	762	538
65°	397	439	507	547	558	395
75°	199	246	301	295	284	211
85°	36	51	28	23	19	47
90°	0	0	0	0	0	



TEST NUMBER: P307994

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.2	1362.2	1362.2	1362.2	1362.2
2.5°	1364.1	1360.4	1354.7	1364.1	1362.2
5°	1358.5	1354.7	1347.1	1358.5	1356.6
7.5°	1347.1	1343.3	1339.5	1350.9	1349.0
10°	1332.0	1330.1	1328.2	1341.4	1339.5
12.5°	1313.1	1313.1	1311.2	1326.3	1326.3
15°	1288.5	1290.4	1292.2	1309.3	1309.3
17.5°	1265.8	1263.9	1269.5	1288.5	1290.4
20°	1233.6	1237.4	1244.9	1267.6	1269.5
22.5°	1201.4	1205.2	1218.5	1241.2	1246.8
25°	1165.5	1171.2	1186.3	1214.7	1220.3
27.5°	1127.6	1135.2	1156.0	1186.3	1192.0
30°	1086.0	1097.4	1120.1	1154.1	1159.8
32.5°	1044.4	1055.7	1084.1	1118.2	1125.7
35°	999.0	1012.2	1044.4	1084.1	1093.6
37.5°	951.7	968.7	1006.6	1046.3	1057.6
40°	904.4	923.3	964.9	1006.6	1019.8
42.5°	857.1	876.0	921.4	968.7	982.0
45°	804.1	830.6	879.8	929.0	940.3
47.5°	753.0	781.4	836.3	885.5	900.6
50°	703.8	732.2	790.9	841.9	857.1
52.5°	652.7	683.0	745.5	798.4	811.7
55°	601.7	633.8	700.0	751.1	762.5
57.5°	550.6	584.6	652.7	701.9	715.2
60°	499.5	535.4	601.7	650.9	660.3
62.5°	448.4	486.2	554.4	597.9	607.3
65°	397.3	438.9	507.1	546.8	558.1
67.5°	348.1	389.8	456.0	493.8	503.3
70°	302.7	340.6	406.8	435.2	438.9
72.5°	246.0	293.3	357.6	372.7	363.3
75°	198.7	246.0	300.8	295.2	283.8
77.5°	151.4	198.7	234.6	215.7	200.6
80°	107.8	155.1	162.7	134.3	126.8
82.5°	70.0	107.8	90.8	70.0	56.8
85°	35.9	51.1	28.4	22.7	18.9
87.5°	11.4	7.6	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)