

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: P307995

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5700K**

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: P307995
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-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5700K 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: 3826.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

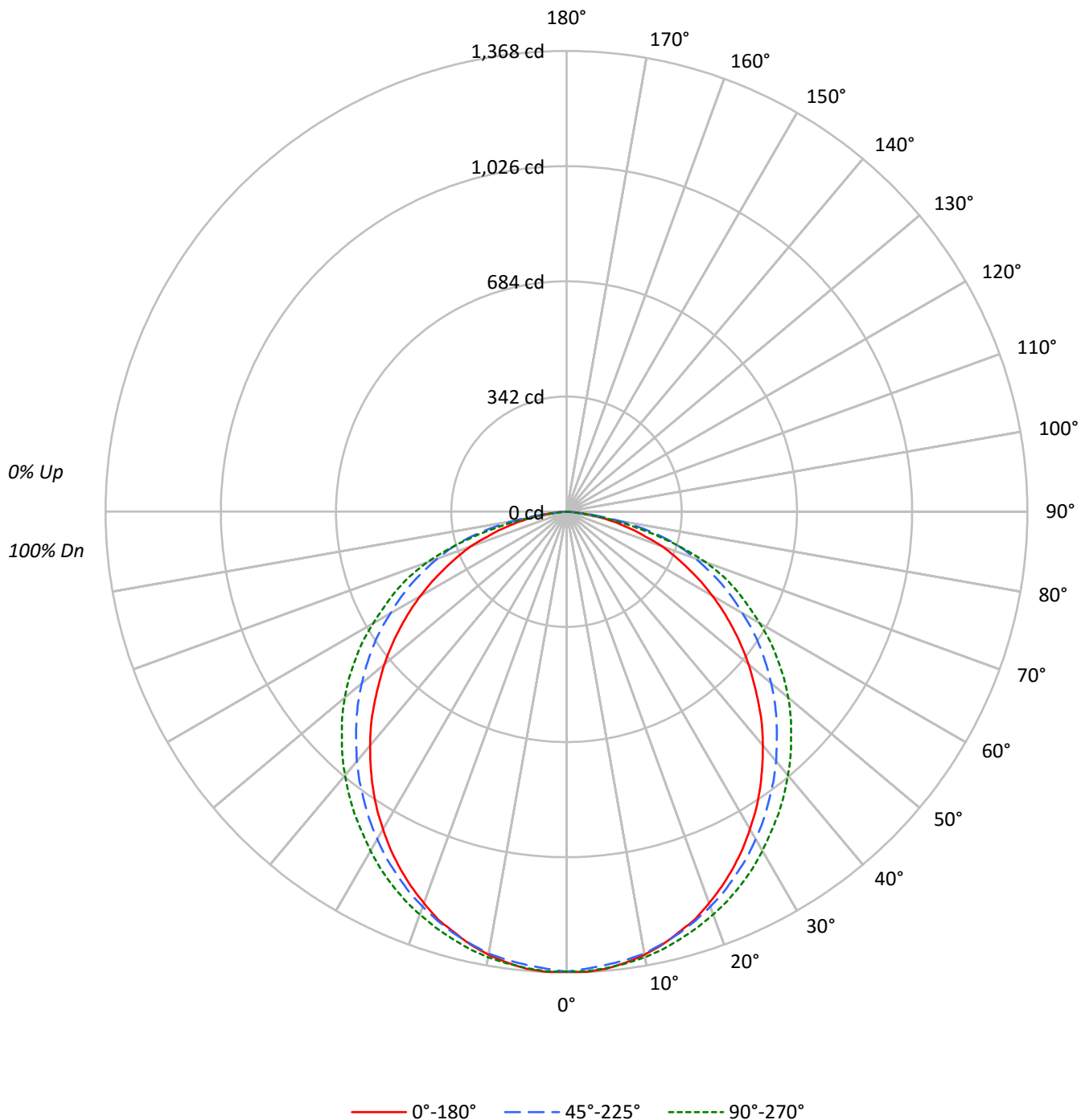
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307995

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P307995

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5700K

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°	3675	3675	3675
5°	3679	3648	3674
10°	3649	3639	3670
15°	3599	3609	3657
20°	3542	3574	3645
25°	3469	3532	3633
30°	3384	3489	3613
35°	3290	3440	3602
40°	3185	3399	3592
45°	3068	3357	3588
50°	2954	3319	3597
55°	2830	3293	3587
60°	2695	3246	3563
65°	2537	3237	3563
70°	2388	3209	3463
75°	2071	3136	2958
80°	1675	2528	1970
85°	1112	880	587



TEST NUMBER: P307995

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.4
10°-20°	367.0	9.6
20°-30°	550.5	14.4
30°-40°	656.7	17.2
40°-50°	678.9	17.7
50°-60°	619.8	16.2
60°-70°	487.8	12.7
70°-80°	283.9	7.4
80°-90°	52.3	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°	1046.5	27.4
0°-40°	1703.2	44.5
0°-60°	3002.0	78.5
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1362	1358	1351	1362	1360	129
15°	1292	1294	1296	1313	1313	365
25°	1168	1174	1189	1218	1224	538
35°	1002	1015	1047	1087	1096	626
45°	806	833	882	931	943	623
55°	603	636	702	753	764	539
65°	398	440	508	548	560	396
75°	199	247	302	296	284	212
85°	36	51	28	23	19	47
90°	0	0	0	0	0	



TEST NUMBER: P307995

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-S-CP125-W2A-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.8	1365.8	1365.8	1365.8	1365.8
2.5°	1367.7	1363.9	1358.2	1367.7	1365.8
5°	1362.0	1358.2	1350.6	1362.0	1360.1
7.5°	1350.6	1346.8	1343.1	1354.4	1352.5
10°	1335.5	1333.6	1331.7	1345.0	1343.1
12.5°	1316.5	1316.5	1314.6	1329.8	1329.8
15°	1291.8	1293.7	1295.6	1312.7	1312.7
17.5°	1269.1	1267.2	1272.9	1291.8	1293.7
20°	1236.8	1240.6	1248.2	1271.0	1272.9
22.5°	1204.6	1208.4	1221.6	1244.4	1250.1
25°	1168.5	1174.2	1189.4	1217.9	1223.5
27.5°	1130.6	1138.2	1159.0	1189.4	1195.1
30°	1088.9	1100.2	1123.0	1157.2	1162.8
32.5°	1047.1	1058.5	1087.0	1121.1	1128.7
35°	1001.6	1014.9	1047.1	1087.0	1096.4
37.5°	954.2	971.2	1009.2	1049.0	1060.4
40°	906.8	925.7	967.5	1009.2	1022.5
42.5°	859.3	878.3	923.8	971.2	984.5
45°	806.2	832.8	882.1	931.4	942.8
47.5°	755.0	783.4	838.5	887.8	903.0
50°	705.7	734.1	792.9	844.2	859.3
52.5°	654.5	684.8	747.4	800.5	813.8
55°	603.2	635.5	701.9	753.1	764.5
57.5°	552.0	586.2	654.5	703.8	717.1
60°	500.8	536.8	603.2	652.6	662.0
62.5°	449.6	487.5	555.8	599.4	608.9
65°	398.4	440.1	508.4	548.2	559.6
67.5°	349.0	390.8	457.2	495.1	504.6
70°	303.5	341.5	407.8	436.3	440.1
72.5°	246.6	294.0	358.5	373.7	364.2
75°	199.2	246.6	301.6	295.9	284.5
77.5°	151.8	199.2	235.2	216.3	201.1
80°	108.1	155.6	163.1	134.7	127.1
82.5°	70.2	108.1	91.1	70.2	56.9
85°	36.0	51.2	28.5	22.8	19.0
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)