

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: P307990

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP125-W2A-U-3500K**

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: P307990
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-3500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3500K 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: 3585.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

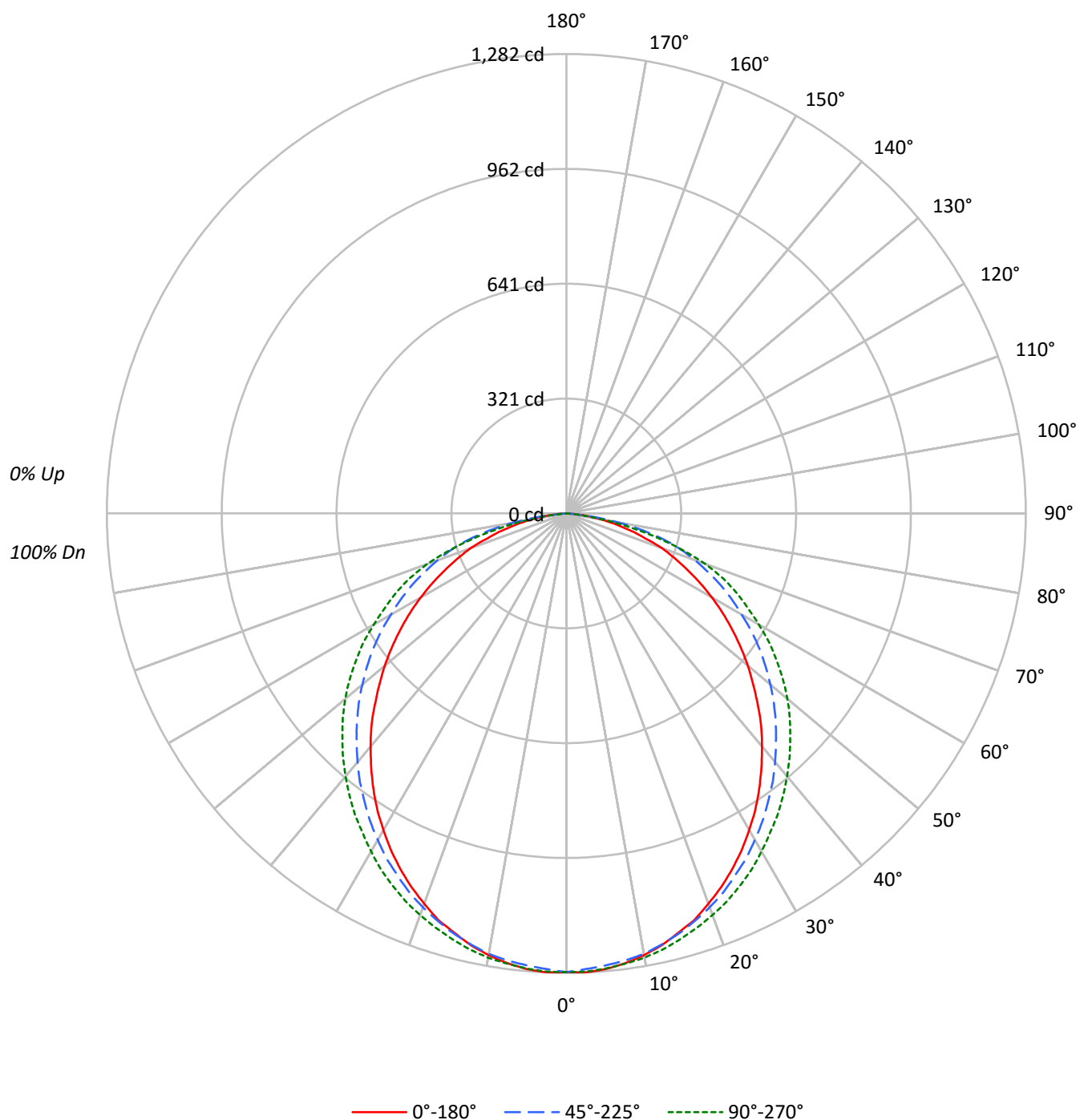
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3444	3444	3444
5°	3447	3419	3443
10°	3419	3410	3439
15°	3372	3382	3427
20°	3319	3349	3416
25°	3251	3309	3404
30°	3170	3270	3386
35°	3083	3223	3375
40°	2984	3184	3366
45°	2875	3145	3362
50°	2768	3111	3371
55°	2652	3086	3361
60°	2526	3042	3338
65°	2377	3033	3339
70°	2238	3007	3245
75°	1940	2938	2772
80°	1570	2369	1846
85°	1044	824	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	343.9	9.6
20°-30°	515.8	14.4
30°-40°	615.3	17.2
40°-50°	636.1	17.7
50°-60°	580.8	16.2
60°-70°	457.1	12.7
70°-80°	266.1	7.4
80°-90°	49.0	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°	980.6	27.4
0°-40°	1595.9	44.5
0°-60°	2812.9	78.5
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1276	1273	1266	1276	1274	121
15°	1210	1212	1214	1230	1230	342
25°	1095	1100	1114	1141	1146	504
35°	938	951	981	1018	1027	587
45°	755	780	826	873	883	583
55°	565	596	658	706	716	505
65°	373	412	476	514	524	371
75°	187	231	283	277	267	198
85°	34	48	27	21	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.8	1279.8	1279.8	1279.8	1279.8
2.5°	1281.6	1278.0	1272.7	1281.6	1279.8
5°	1276.2	1272.7	1265.6	1276.2	1274.5
7.5°	1265.6	1262.0	1258.5	1269.1	1267.3
10°	1251.3	1249.6	1247.8	1260.2	1258.5
12.5°	1233.6	1233.6	1231.8	1246.0	1246.0
15°	1210.5	1212.2	1214.0	1230.0	1230.0
17.5°	1189.1	1187.4	1192.7	1210.5	1212.2
20°	1158.9	1162.5	1169.6	1190.9	1192.7
22.5°	1128.7	1132.3	1144.7	1166.0	1171.4
25°	1094.9	1100.3	1114.5	1141.1	1146.5
27.5°	1059.4	1066.5	1086.0	1114.5	1119.8
30°	1020.3	1030.9	1052.3	1084.3	1089.6
32.5°	981.2	991.8	1018.5	1050.5	1057.6
35°	938.5	951.0	981.2	1018.5	1027.4
37.5°	894.1	910.1	945.6	982.9	993.6
40°	849.6	867.4	906.5	945.6	958.1
42.5°	805.2	823.0	865.6	910.1	922.5
45°	755.4	780.3	826.5	872.7	883.4
47.5°	707.4	734.1	785.6	831.9	846.1
50°	661.2	687.9	743.0	791.0	805.2
52.5°	613.2	641.7	700.3	750.1	762.5
55°	565.2	595.5	657.7	705.7	716.3
57.5°	517.2	549.2	613.2	659.4	671.9
60°	469.3	503.0	565.2	611.5	620.3
62.5°	421.3	456.8	520.8	561.7	570.6
65°	373.3	412.4	476.4	513.7	524.4
67.5°	327.1	366.2	428.4	463.9	472.8
70°	284.4	319.9	382.2	408.8	412.4
72.5°	231.1	275.5	335.9	350.2	341.3
75°	186.6	231.1	282.6	277.3	266.6
77.5°	142.2	186.6	220.4	202.6	188.4
80°	101.3	145.8	152.9	126.2	119.1
82.5°	65.8	101.3	85.3	65.8	53.3
85°	33.8	48.0	26.7	21.3	17.8
87.5°	10.7	7.1	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)