

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: P307989

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP125-W2A-U-3000K**

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: P307989
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-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 3465.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

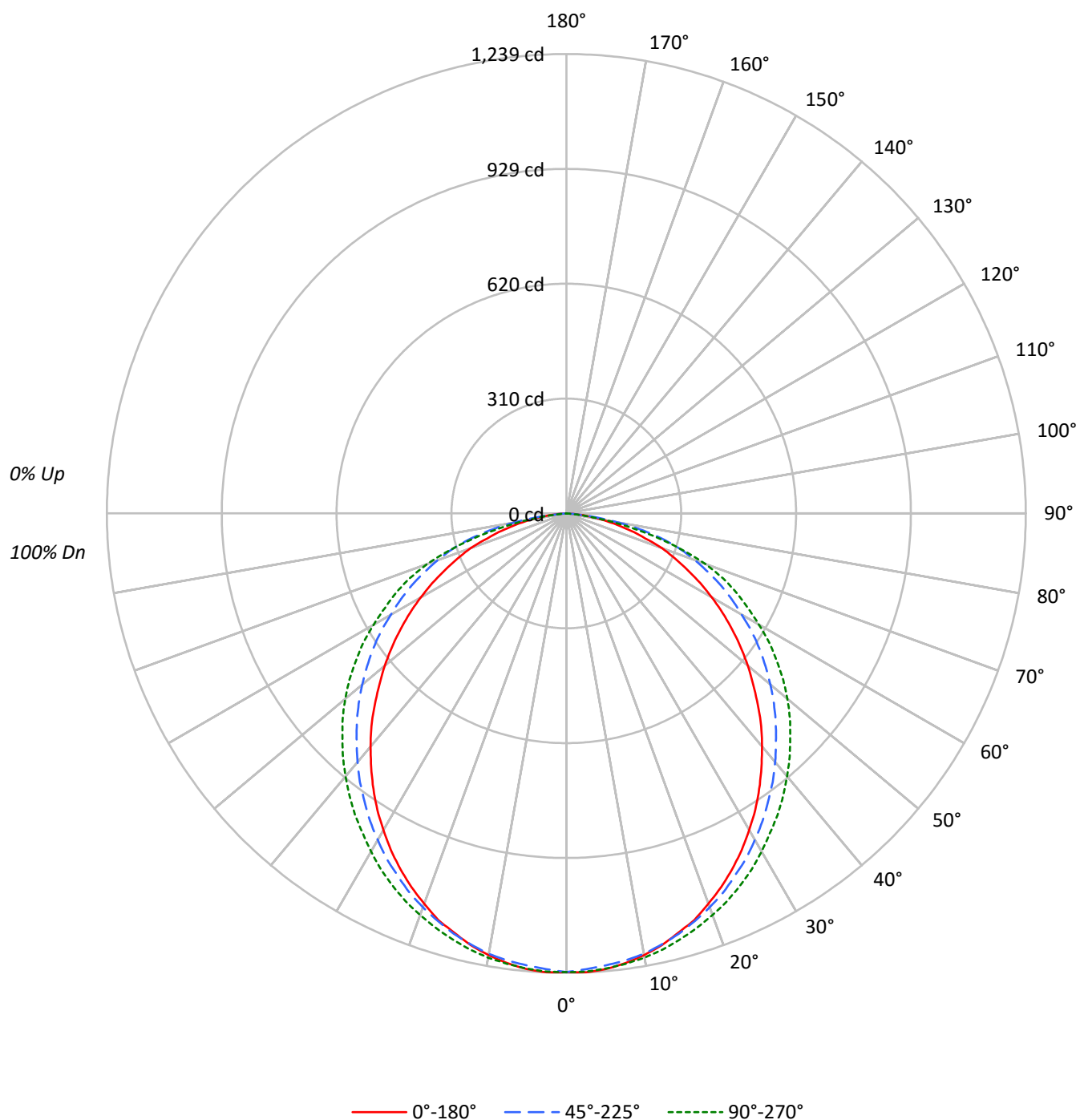
Input Watts (W): 33.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3328	3328	3328
5°	3332	3304	3327
10°	3305	3295	3324
15°	3259	3269	3312
20°	3208	3237	3301
25°	3142	3198	3290
30°	3064	3160	3272
35°	2980	3115	3262
40°	2885	3078	3253
45°	2778	3040	3249
50°	2676	3006	3258
55°	2563	2982	3248
60°	2441	2940	3227
65°	2297	2932	3227
70°	2163	2906	3136
75°	1876	2840	2679
80°	1517	2289	1784
85°	1007	797	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.4
10°-20°	332.4	9.6
20°-30°	498.6	14.4
30°-40°	594.7	17.2
40°-50°	614.8	17.7
50°-60°	561.4	16.2
60°-70°	441.8	12.7
70°-80°	257.2	7.4
80°-90°	47.4	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°	947.7	27.4
0°-40°	1542.5	44.5
0°-60°	2718.7	78.5
0°-90°	3465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1234	1230	1223	1234	1232	117
15°	1170	1172	1173	1189	1189	330
25°	1058	1063	1077	1103	1108	487
35°	907	919	948	984	993	567
45°	730	754	799	844	854	564
55°	546	576	636	682	692	489
65°	361	399	460	496	507	358
75°	180	223	273	268	258	192
85°	33	46	26	21	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1238.7	1235.2	1230.1	1238.7	1236.9
5°	1233.5	1230.1	1223.2	1233.5	1231.8
7.5°	1223.2	1219.8	1216.3	1226.6	1224.9
10°	1209.5	1207.7	1206.0	1218.0	1216.3
12.5°	1192.3	1192.3	1190.6	1204.3	1204.3
15°	1169.9	1171.7	1173.4	1188.8	1188.8
17.5°	1149.3	1147.6	1152.8	1169.9	1171.7
20°	1120.1	1123.6	1130.4	1151.0	1152.8
22.5°	1090.9	1094.4	1106.4	1127.0	1132.2
25°	1058.3	1063.4	1077.2	1102.9	1108.1
27.5°	1023.9	1030.8	1049.7	1077.2	1082.3
30°	986.1	996.4	1017.0	1048.0	1053.1
32.5°	948.3	958.6	984.4	1015.3	1022.2
35°	907.1	919.1	948.3	984.4	993.0
37.5°	864.1	879.6	914.0	950.0	960.4
40°	821.2	838.4	876.2	914.0	926.0
42.5°	778.2	795.4	836.7	879.6	891.6
45°	730.1	754.2	798.9	843.5	853.8
47.5°	683.8	709.5	759.3	804.0	817.8
50°	639.1	664.9	718.1	764.5	778.2
52.5°	592.7	620.2	676.9	725.0	737.0
55°	546.3	575.5	635.7	682.0	692.3
57.5°	499.9	530.9	592.7	637.4	649.4
60°	453.5	486.2	546.3	591.0	599.6
62.5°	407.2	441.5	503.4	542.9	551.5
65°	360.8	398.6	460.4	496.5	506.8
67.5°	316.1	353.9	414.0	448.4	457.0
70°	274.9	309.2	369.4	395.1	398.6
72.5°	223.3	266.3	324.7	338.4	329.9
75°	180.4	223.3	273.2	268.0	257.7
77.5°	137.4	180.4	213.0	195.9	182.1
80°	97.9	140.9	147.7	122.0	115.1
82.5°	63.6	97.9	82.5	63.6	51.5
85°	32.6	46.4	25.8	20.6	17.2
87.5°	10.3	6.9	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)