

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: P307980

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CA125-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: P307980
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-CA125-W2A-U-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC 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: 3534.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

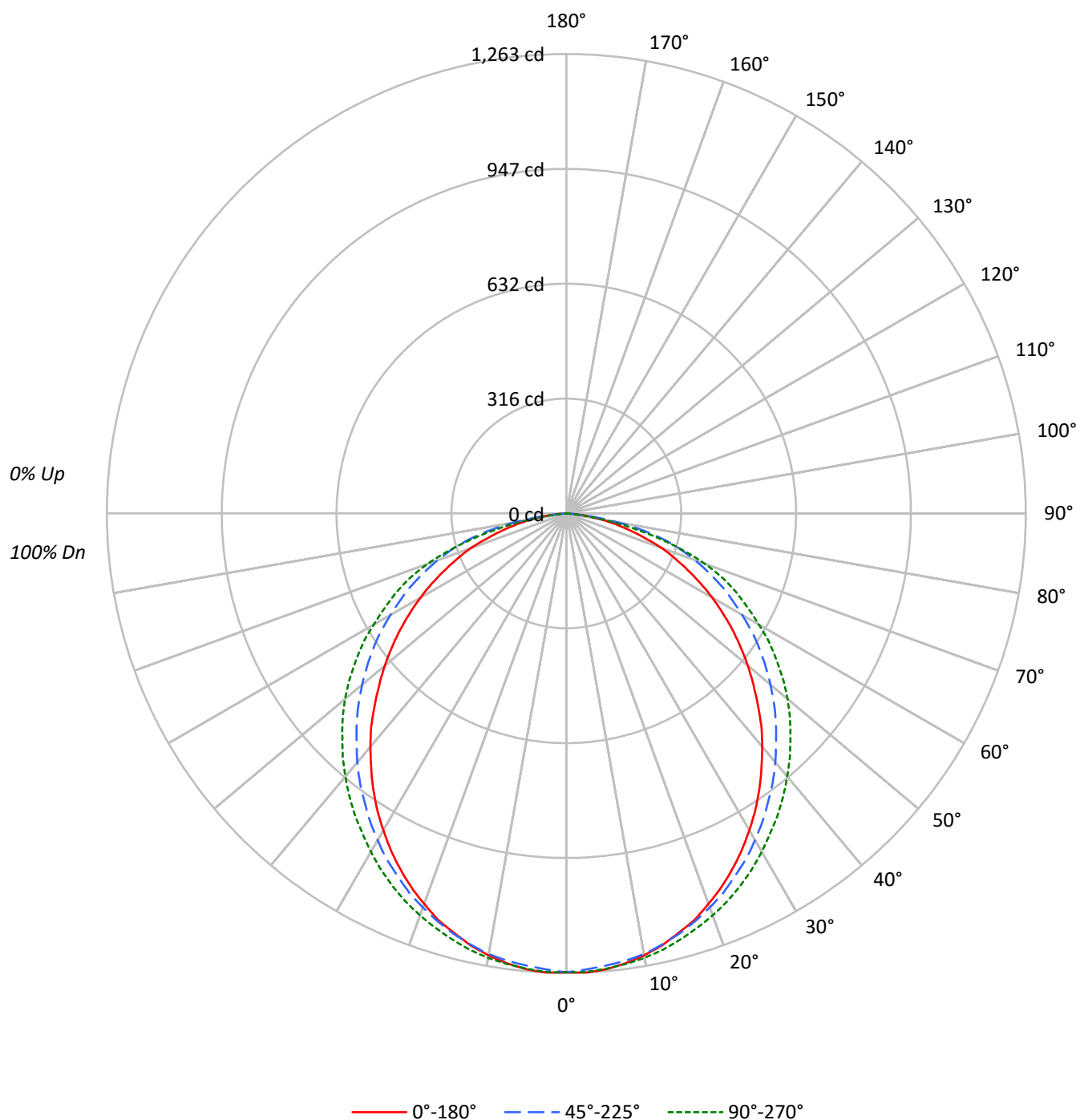
Input Watts (W): 33.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3395	3395	3395
5°	3398	3370	3394
10°	3371	3361	3390
15°	3324	3334	3378
20°	3271	3302	3367
25°	3205	3262	3356
30°	3125	3223	3338
35°	3039	3177	3327
40°	2942	3139	3318
45°	2834	3101	3314
50°	2729	3066	3323
55°	2614	3042	3313
60°	2490	2999	3291
65°	2343	2990	3291
70°	2206	2964	3198
75°	1913	2897	2732
80°	1548	2335	1819
85°	1028	812	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.4
10°-20°	339.0	9.6
20°-30°	508.5	14.4
30°-40°	606.6	17.2
40°-50°	627.1	17.7
50°-60°	572.5	16.2
60°-70°	450.6	12.7
70°-80°	262.3	7.4
80°-90°	48.3	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°	966.6	27.4
0°-40°	1573.2	44.5
0°-60°	2772.8	78.5
0°-90°	3534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1258	1255	1248	1258	1256	119
15°	1193	1195	1197	1212	1212	337
25°	1079	1085	1099	1125	1130	497
35°	925	937	967	1004	1013	578
45°	745	769	815	860	871	575
55°	557	587	648	696	706	498
65°	368	406	470	506	517	365
75°	184	228	279	273	263	196
85°	33	47	26	21	18	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.6	1261.6	1261.6	1261.6	1261.6
2.5°	1263.3	1259.8	1254.6	1263.3	1261.6
5°	1258.1	1254.6	1247.6	1258.1	1256.3
7.5°	1247.6	1244.1	1240.6	1251.1	1249.3
10°	1233.5	1231.8	1230.0	1242.3	1240.6
12.5°	1216.0	1216.0	1214.3	1228.3	1228.3
15°	1193.2	1195.0	1196.7	1212.5	1212.5
17.5°	1172.2	1170.5	1175.7	1193.2	1195.0
20°	1142.4	1145.9	1152.9	1174.0	1175.7
22.5°	1112.6	1116.1	1128.4	1149.4	1154.7
25°	1079.4	1084.6	1098.6	1124.9	1130.2
27.5°	1044.3	1051.3	1070.6	1098.6	1103.9
30°	1005.8	1016.3	1037.3	1068.8	1074.1
32.5°	967.2	977.7	1004.0	1035.5	1042.6
35°	925.2	937.4	967.2	1004.0	1012.8
37.5°	881.4	897.1	932.2	969.0	979.5
40°	837.5	855.1	893.6	932.2	944.4
42.5°	793.7	811.3	853.3	897.1	909.4
45°	744.7	769.2	814.8	860.3	870.8
47.5°	697.4	723.7	774.5	820.0	834.0
50°	651.8	678.1	732.4	779.7	793.7
52.5°	604.5	632.5	690.4	739.4	751.7
55°	557.2	587.0	648.3	695.6	706.1
57.5°	509.9	541.4	604.5	650.1	662.3
60°	462.6	495.9	557.2	602.8	611.5
62.5°	415.3	450.3	513.4	553.7	562.5
65°	368.0	406.5	469.6	506.4	516.9
67.5°	322.4	361.0	422.3	457.3	466.1
70°	280.4	315.4	376.7	403.0	406.5
72.5°	227.8	271.6	331.2	345.2	336.4
75°	184.0	227.8	278.6	273.3	262.8
77.5°	140.2	184.0	217.3	199.8	185.7
80°	99.9	143.7	150.7	124.4	117.4
82.5°	64.8	99.9	84.1	64.8	52.6
85°	33.3	47.3	26.3	21.0	17.5
87.5°	10.5	7.0	3.5	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)