

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: P307942

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-6500K**

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: P307942
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: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 6500K 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: 3545.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

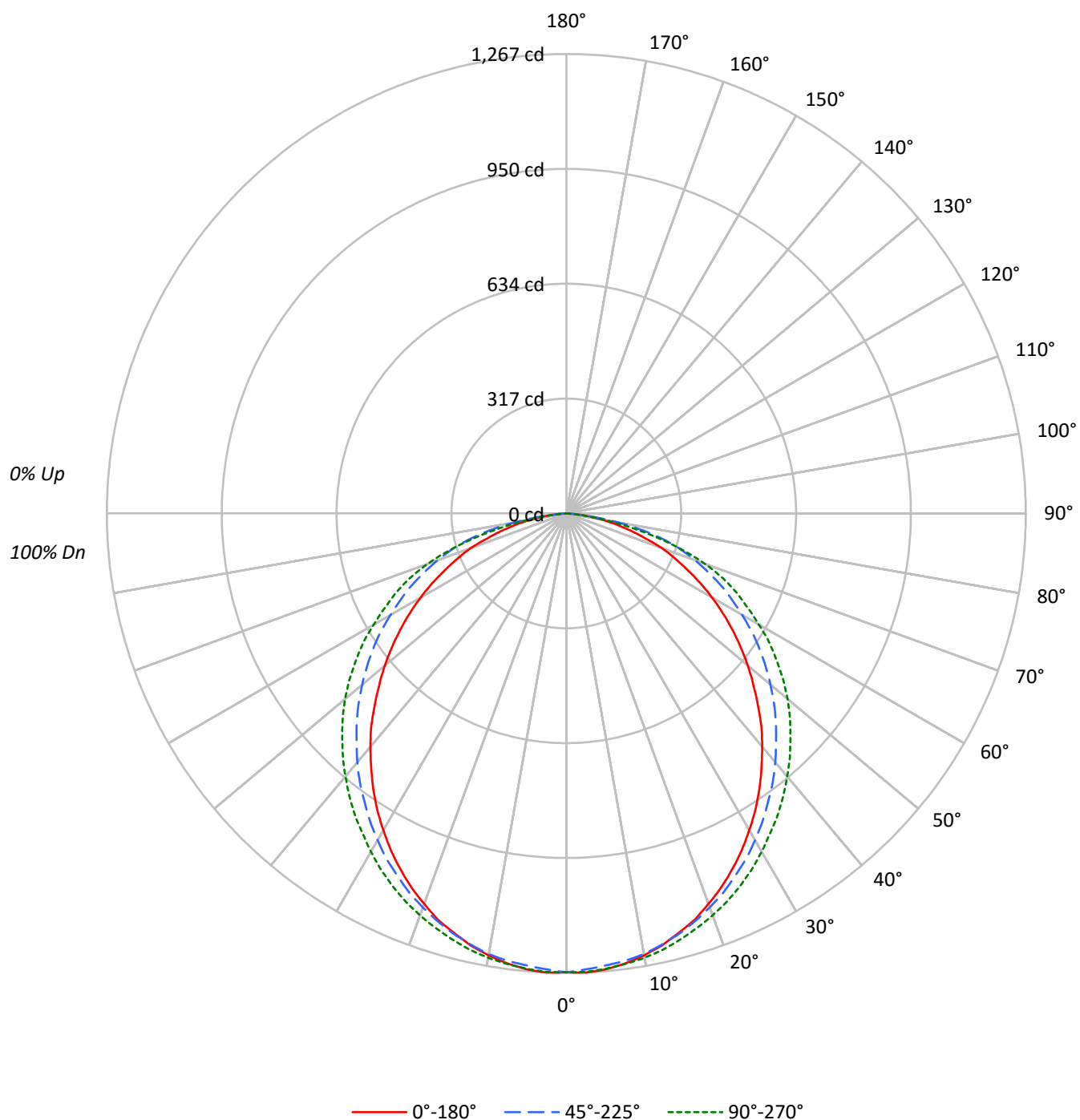
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3405	3405	3405
5°	3409	3380	3404
10°	3381	3372	3400
15°	3335	3344	3388
20°	3282	3312	3377
25°	3215	3272	3366
30°	3135	3233	3348
35°	3049	3187	3337
40°	2951	3149	3328
45°	2843	3110	3325
50°	2737	3076	3333
55°	2622	3051	3323
60°	2497	3008	3301
65°	2350	2999	3301
70°	2212	2973	3209
75°	1919	2906	2741
80°	1553	2343	1826
85°	1031	815	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.4
10°-20°	340.0	9.6
20°-30°	510.1	14.4
30°-40°	608.5	17.2
40°-50°	629.0	17.7
50°-60°	574.3	16.2
60°-70°	452.0	12.7
70°-80°	263.1	7.4
80°-90°	48.5	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°	969.6	27.4
0°-40°	1578.1	44.5
0°-60°	2781.5	78.5
0°-90°	3545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1262	1258	1251	1262	1260	120
15°	1197	1199	1200	1216	1216	338
25°	1083	1088	1102	1128	1134	498
35°	928	940	970	1007	1016	580
45°	747	772	817	863	874	577
55°	559	589	650	698	708	500
65°	369	408	471	508	518	367
75°	185	228	280	274	264	196
85°	33	48	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°	1265.5	1265.5	1265.5	1265.5	1265.5
2.5°	1267.3	1263.7	1258.5	1267.3	1265.5
5°	1262.0	1258.5	1251.4	1262.0	1260.2
7.5°	1251.4	1247.9	1244.4	1255.0	1253.2
10°	1237.4	1235.6	1233.9	1246.2	1244.4
12.5°	1219.8	1219.8	1218.0	1232.1	1232.1
15°	1197.0	1198.7	1200.5	1216.3	1216.3
17.5°	1175.9	1174.1	1179.4	1197.0	1198.7
20°	1146.0	1149.5	1156.5	1177.6	1179.4
22.5°	1116.1	1119.6	1131.9	1153.0	1158.3
25°	1082.7	1088.0	1102.0	1128.4	1133.7
27.5°	1047.6	1054.6	1073.9	1102.0	1107.3
30°	1008.9	1019.4	1040.5	1072.2	1077.4
32.5°	970.2	980.8	1007.1	1038.8	1045.8
35°	928.0	940.3	970.2	1007.1	1015.9
37.5°	884.1	899.9	935.1	972.0	982.5
40°	840.2	857.7	896.4	935.1	947.4
42.5°	796.2	813.8	856.0	899.9	912.2
45°	747.0	771.6	817.3	863.0	873.6
47.5°	699.5	725.9	776.9	822.6	836.6
50°	653.8	680.2	734.7	782.2	796.2
52.5°	606.4	634.5	692.5	741.7	754.0
55°	558.9	588.8	650.3	697.8	708.3
57.5°	511.5	543.1	606.4	652.1	664.4
60°	464.0	497.4	558.9	604.6	613.4
62.5°	416.6	451.7	515.0	555.4	564.2
65°	369.1	407.8	471.0	508.0	518.5
67.5°	323.4	362.1	423.6	458.7	467.5
70°	281.2	316.4	377.9	404.3	407.8
72.5°	228.5	272.4	332.2	346.3	337.5
75°	184.6	228.5	279.5	274.2	263.6
77.5°	140.6	184.6	217.9	200.4	186.3
80°	100.2	144.1	151.2	124.8	117.8
82.5°	65.0	100.2	84.4	65.0	52.7
85°	33.4	47.5	26.4	21.1	17.6
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)