

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: P307940

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-5500K**

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: P307940
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-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 5500K 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: 3527.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

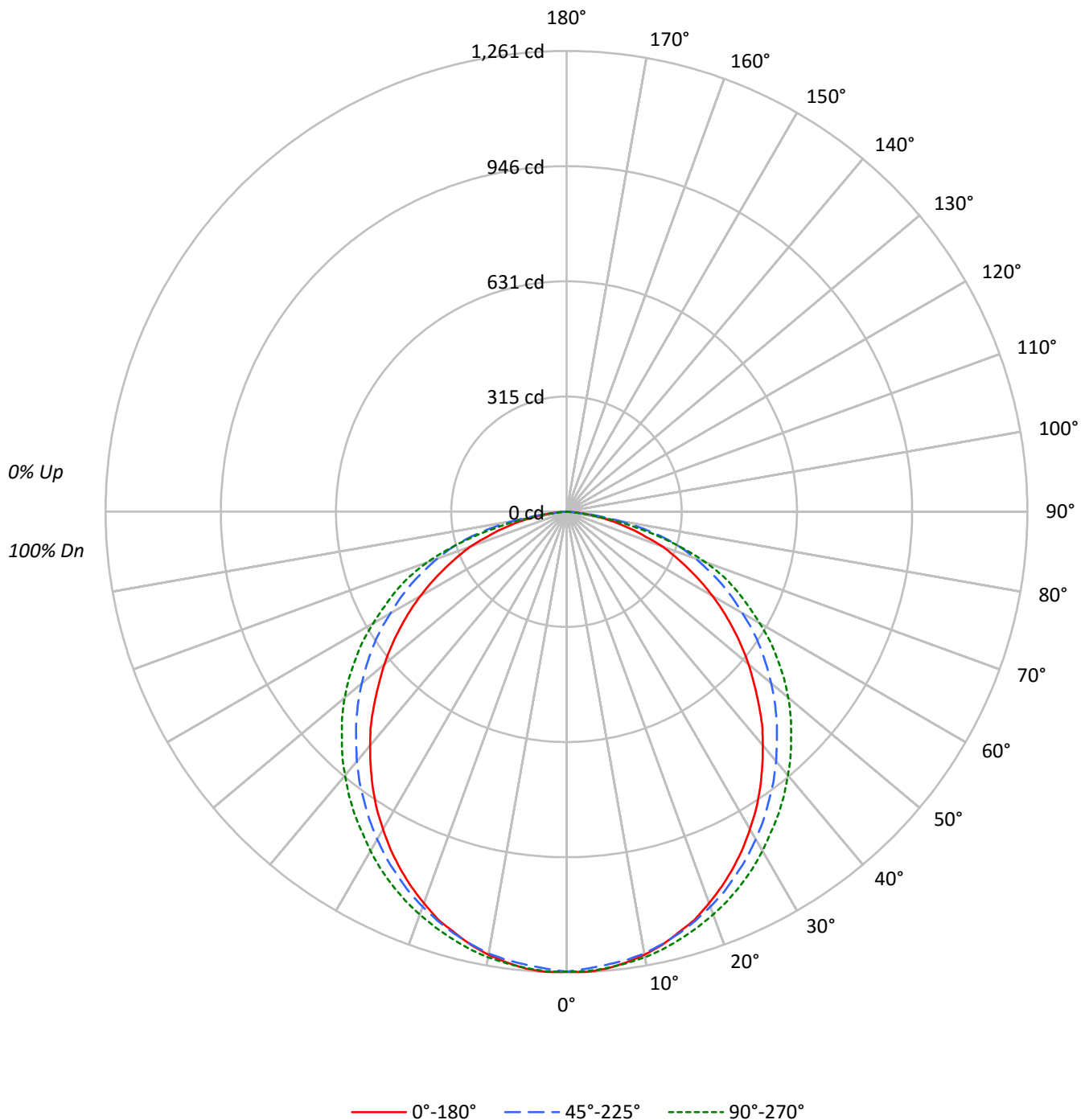
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3388	3388	3388
5°	3392	3363	3387
10°	3364	3354	3383
15°	3318	3327	3371
20°	3265	3295	3360
25°	3198	3255	3349
30°	3119	3217	3331
35°	3033	3171	3321
40°	2936	3133	3311
45°	2828	3095	3307
50°	2723	3060	3316
55°	2609	3035	3306
60°	2485	2993	3285
65°	2338	2984	3285
70°	2201	2958	3192
75°	1909	2890	2727
80°	1545	2331	1816
85°	1025	809	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.4
10°-20°	338.3	9.6
20°-30°	507.5	14.4
30°-40°	605.4	17.2
40°-50°	625.9	17.7
50°-60°	571.4	16.2
60°-70°	449.7	12.7
70°-80°	261.8	7.4
80°-90°	48.2	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°	964.7	27.4
0°-40°	1570.1	44.5
0°-60°	2767.3	78.5
0°-90°	3527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1256	1252	1245	1256	1254	119
15°	1191	1193	1194	1210	1210	336
25°	1077	1082	1096	1123	1128	496
35°	923	936	965	1002	1011	577
45°	743	768	813	859	869	574
55°	556	586	647	694	705	497
65°	367	406	469	505	516	365
75°	184	227	278	273	262	195
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°	1259.1	1259.1	1259.1	1259.1	1259.1
2.5°	1260.8	1257.3	1252.1	1260.8	1259.1
5°	1255.6	1252.1	1245.1	1255.6	1253.8
7.5°	1245.1	1241.6	1238.1	1248.6	1246.8
10°	1231.1	1229.4	1227.6	1239.8	1238.1
12.5°	1213.6	1213.6	1211.9	1225.9	1225.9
15°	1190.9	1192.6	1194.4	1210.1	1210.1
17.5°	1169.9	1168.1	1173.4	1190.9	1192.6
20°	1140.2	1143.7	1150.7	1171.6	1173.4
22.5°	1110.4	1113.9	1126.2	1147.2	1152.4
25°	1077.2	1082.5	1096.4	1122.7	1127.9
27.5°	1042.2	1049.2	1068.5	1096.4	1101.7
30°	1003.8	1014.3	1035.2	1066.7	1072.0
32.5°	965.3	975.8	1002.0	1033.5	1040.5
35°	923.3	935.6	965.3	1002.0	1010.8
37.5°	879.6	895.3	930.3	967.0	977.5
40°	835.9	853.4	891.8	930.3	942.6
42.5°	792.2	809.7	851.6	895.3	907.6
45°	743.2	767.7	813.2	858.6	869.1
47.5°	696.0	722.2	772.9	818.4	832.4
50°	650.5	676.8	731.0	778.2	792.2
52.5°	603.3	631.3	689.0	738.0	750.2
55°	556.1	585.8	647.0	694.2	704.7
57.5°	508.9	540.4	603.3	648.8	661.0
60°	461.7	494.9	556.1	601.6	610.3
62.5°	414.4	449.4	512.4	552.6	561.3
65°	367.2	405.7	468.7	505.4	515.9
67.5°	321.8	360.2	421.4	456.4	465.2
70°	279.8	314.8	376.0	402.2	405.7
72.5°	227.3	271.1	330.5	344.5	335.8
75°	183.6	227.3	278.0	272.8	262.3
77.5°	139.9	183.6	216.8	199.4	185.4
80°	99.7	143.4	150.4	124.2	117.2
82.5°	64.7	99.7	83.9	64.7	52.5
85°	33.2	47.2	26.2	21.0	17.5
87.5°	10.5	7.0	3.5	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)