

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: P307941

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-5700K**

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: P307941
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-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 5700K 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: 3536.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

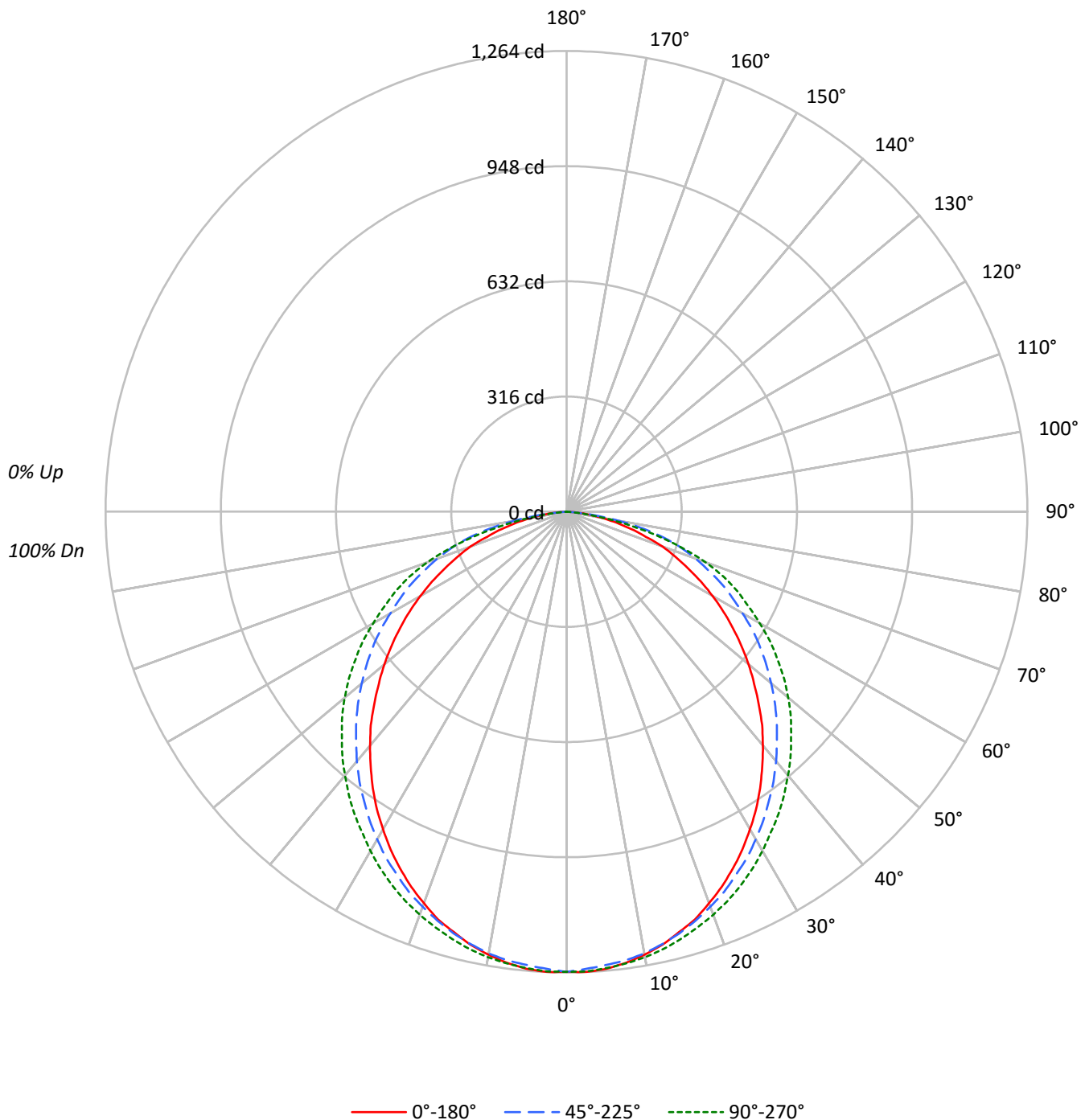
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3397	3397	3397
5°	3400	3372	3395
10°	3372	3363	3392
15°	3326	3336	3380
20°	3273	3304	3369
25°	3207	3264	3358
30°	3127	3225	3339
35°	3041	3179	3329
40°	2944	3141	3320
45°	2836	3102	3316
50°	2730	3068	3325
55°	2616	3043	3315
60°	2491	3000	3293
65°	2344	2992	3293
70°	2207	2965	3200
75°	1914	2899	2734
80°	1548	2337	1821
85°	1028	812	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.4
10°-20°	339.2	9.6
20°-30°	508.8	14.4
30°-40°	606.9	17.2
40°-50°	627.4	17.7
50°-60°	572.9	16.2
60°-70°	450.8	12.7
70°-80°	262.4	7.4
80°-90°	48.4	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°	967.2	27.4
0°-40°	1574.1	44.5
0°-60°	2774.4	78.5
0°-90°	3536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1259	1255	1248	1259	1257	119
15°	1194	1196	1197	1213	1213	337
25°	1080	1085	1099	1126	1131	497
35°	926	938	968	1005	1013	579
45°	745	770	815	861	871	575
55°	558	587	649	696	706	499
65°	368	407	470	507	517	366
75°	184	228	279	274	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°	1262.3	1262.3	1262.3	1262.3	1262.3
2.5°	1264.0	1260.5	1255.3	1264.0	1262.3
5°	1258.8	1255.3	1248.3	1258.8	1257.0
7.5°	1248.3	1244.8	1241.3	1251.8	1250.0
10°	1234.2	1232.5	1230.7	1243.0	1241.3
12.5°	1216.7	1216.7	1215.0	1229.0	1229.0
15°	1193.9	1195.7	1197.4	1213.2	1213.2
17.5°	1172.9	1171.1	1176.4	1193.9	1195.7
20°	1143.1	1146.6	1153.6	1174.6	1176.4
22.5°	1113.3	1116.8	1129.1	1150.1	1155.3
25°	1080.0	1085.2	1099.2	1125.5	1130.8
27.5°	1044.9	1051.9	1071.2	1099.2	1104.5
30°	1006.3	1016.8	1037.9	1069.4	1074.7
32.5°	967.8	978.3	1004.6	1036.1	1043.1
35°	925.7	938.0	967.8	1004.6	1013.3
37.5°	881.9	897.6	932.7	969.5	980.0
40°	838.0	855.6	894.1	932.7	945.0
42.5°	794.2	811.7	853.8	897.6	909.9
45°	745.1	769.6	815.2	860.8	871.3
47.5°	697.8	724.1	774.9	820.5	834.5
50°	652.2	678.5	732.8	780.2	794.2
52.5°	604.8	632.9	690.8	739.8	752.1
55°	557.5	587.3	648.7	696.0	706.5
57.5°	510.2	541.7	604.8	650.4	662.7
60°	462.8	496.2	557.5	603.1	611.9
62.5°	415.5	450.6	513.7	554.0	562.8
65°	368.2	406.7	469.9	506.7	517.2
67.5°	322.6	361.2	422.5	457.6	466.3
70°	280.5	315.6	376.9	403.2	406.7
72.5°	227.9	271.7	331.4	345.4	336.6
75°	184.1	227.9	278.8	273.5	263.0
77.5°	140.3	184.1	217.4	199.9	185.8
80°	99.9	143.8	150.8	124.5	117.5
82.5°	64.9	99.9	84.2	64.9	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)