

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: P307930

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA08-W2A-U-5000K**

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: P307930
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-CA08-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5000K 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: 3505.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

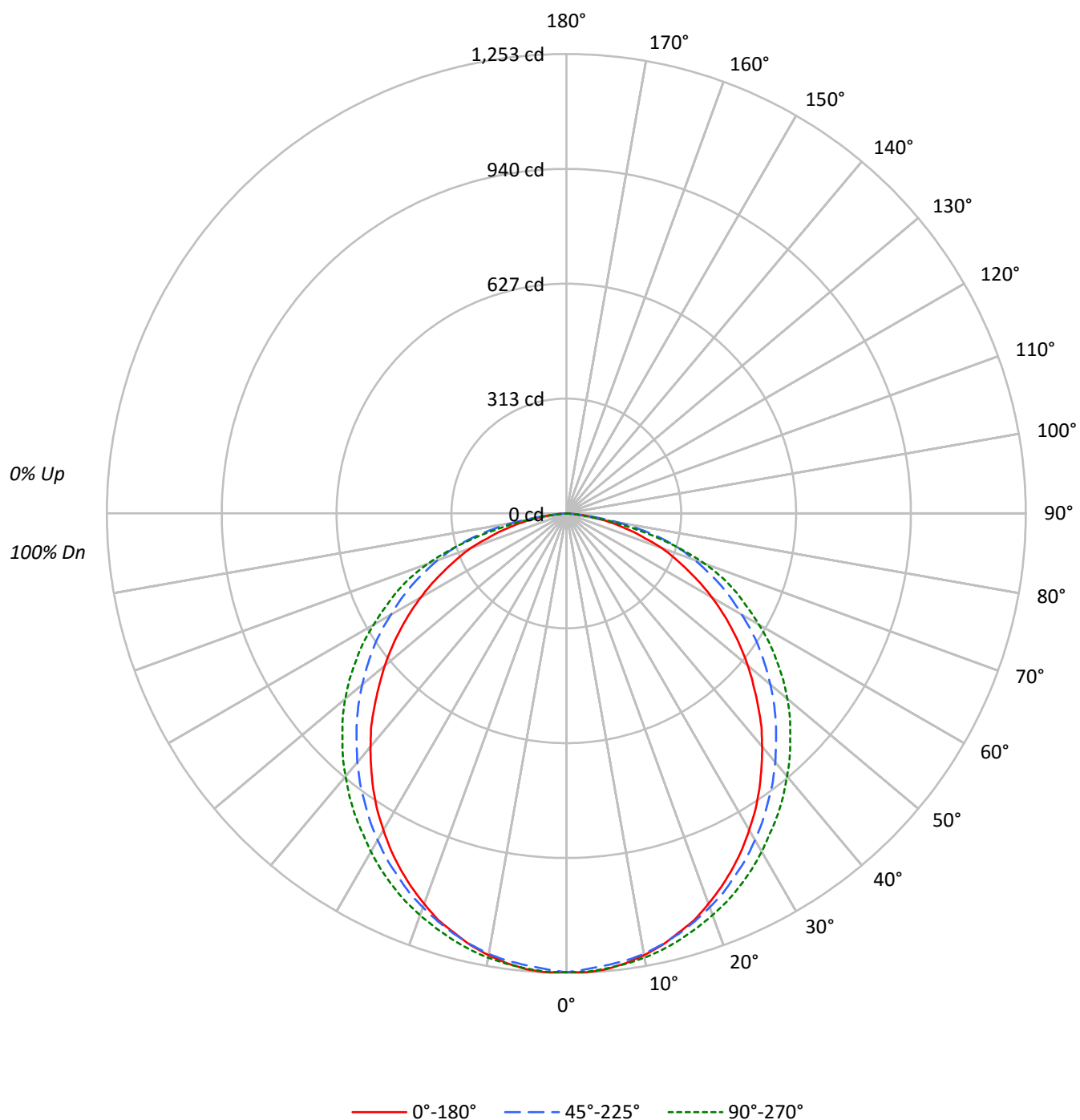
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3367	3367	3367
5°	3371	3342	3366
10°	3343	3333	3362
15°	3297	3307	3350
20°	3245	3275	3339
25°	3178	3235	3328
30°	3100	3197	3310
35°	3014	3151	3300
40°	2918	3113	3290
45°	2811	3075	3287
50°	2707	3041	3296
55°	2593	3017	3286
60°	2469	2974	3264
65°	2323	2965	3265
70°	2188	2939	3172
75°	1897	2873	2711
80°	1536	2317	1804
85°	1019	806	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	336.2	9.6
20°-30°	504.3	14.4
30°-40°	601.6	17.2
40°-50°	621.9	17.7
50°-60°	567.8	16.2
60°-70°	446.9	12.7
70°-80°	260.1	7.4
80°-90°	47.9	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°	958.7	27.4
0°-40°	1560.3	44.5
0°-60°	2750.1	78.5
0°-90°	3505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1248	1244	1237	1248	1246	118
15°	1184	1185	1187	1203	1203	334
25°	1070	1076	1090	1116	1121	493
35°	918	930	959	996	1004	574
45°	739	763	808	853	864	570
55°	553	582	643	690	700	494
65°	365	403	466	502	513	362
75°	182	226	276	271	261	194
85°	33	47	26	21	17	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.2	1251.2	1251.2	1251.2	1251.2
2.5°	1253.0	1249.5	1244.3	1253.0	1251.2
5°	1247.8	1244.3	1237.3	1247.8	1246.0
7.5°	1237.3	1233.8	1230.4	1240.8	1239.1
10°	1223.4	1221.7	1219.9	1232.1	1230.4
12.5°	1206.0	1206.0	1204.3	1218.2	1218.2
15°	1183.5	1185.2	1186.9	1202.6	1202.6
17.5°	1162.6	1160.9	1166.1	1183.5	1185.2
20°	1133.1	1136.5	1143.5	1164.3	1166.1
22.5°	1103.5	1107.0	1119.2	1140.0	1145.2
25°	1070.5	1075.7	1089.6	1115.7	1120.9
27.5°	1035.7	1042.7	1061.8	1089.6	1094.8
30°	997.5	1007.9	1028.8	1060.1	1065.3
32.5°	959.3	969.7	995.8	1027.0	1034.0
35°	917.6	929.7	959.3	995.8	1004.5
37.5°	874.1	889.8	924.5	961.0	971.4
40°	830.7	848.1	886.3	924.5	936.7
42.5°	787.2	804.6	846.3	889.8	901.9
45°	738.6	762.9	808.1	853.3	863.7
47.5°	691.7	717.7	768.1	813.3	827.2
50°	646.5	672.5	726.4	773.3	787.2
52.5°	599.5	627.4	684.7	733.4	745.5
55°	552.6	582.2	643.0	689.9	700.3
57.5°	505.7	537.0	599.5	644.7	656.9
60°	458.8	491.8	552.6	597.8	606.5
62.5°	411.9	446.6	509.2	549.1	557.8
65°	364.9	403.2	465.7	502.2	512.7
67.5°	319.8	358.0	418.8	453.6	462.3
70°	278.1	312.8	373.6	399.7	403.2
72.5°	225.9	269.4	328.4	342.3	333.7
75°	182.5	225.9	276.3	271.1	260.7
77.5°	139.0	182.5	215.5	198.1	184.2
80°	99.1	142.5	149.5	123.4	116.4
82.5°	64.3	99.1	83.4	64.3	52.1
85°	33.0	46.9	26.1	20.9	17.4
87.5°	10.4	7.0	3.5	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)