

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: P307969

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP250-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: P307969
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-CP250-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB 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: 3302.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

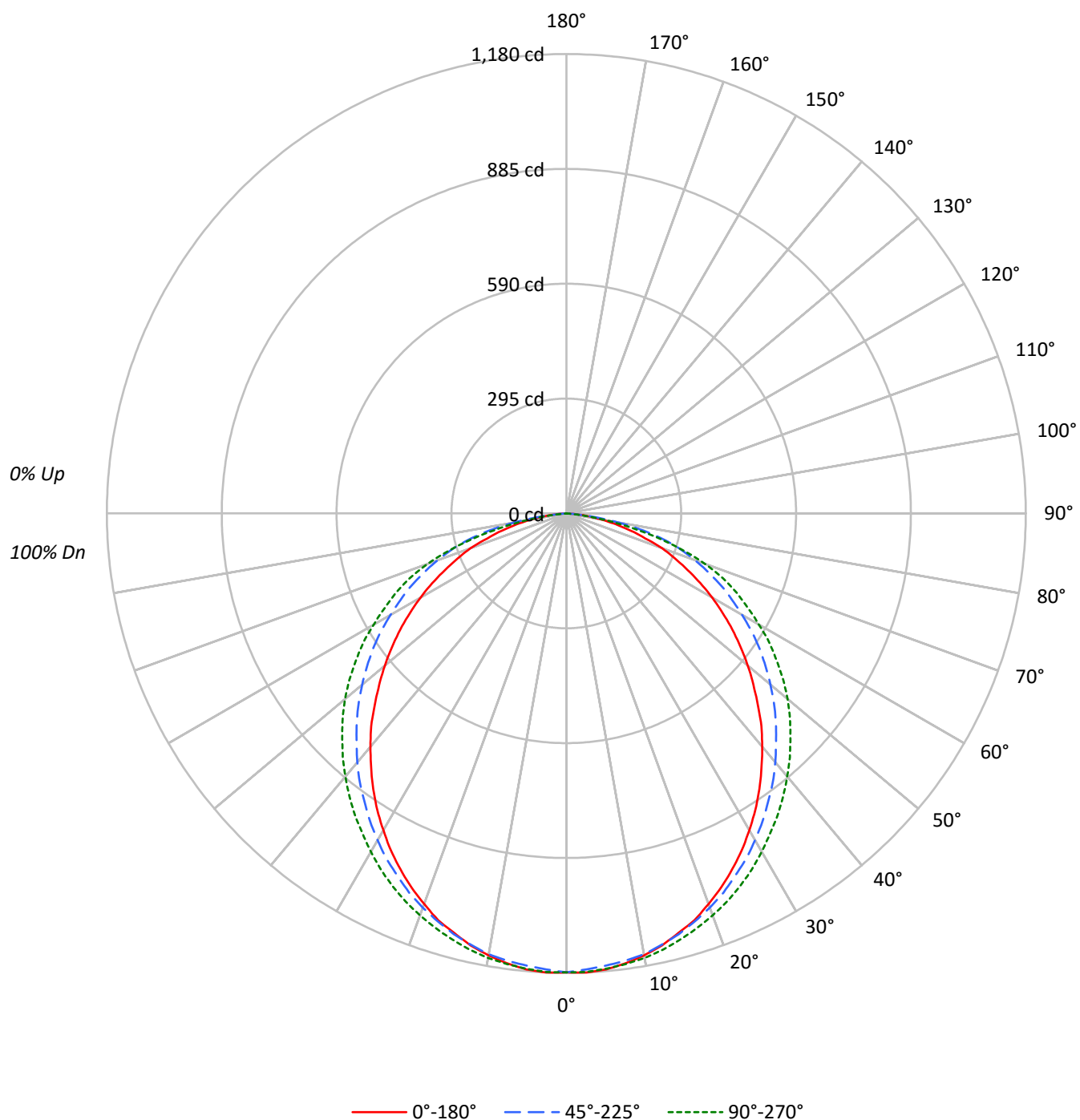
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3172	3172	3172
5°	3175	3149	3171
10°	3149	3140	3167
15°	3106	3115	3156
20°	3057	3085	3146
25°	2994	3048	3135
30°	2920	3012	3118
35°	2840	2969	3109
40°	2749	2933	3100
45°	2648	2897	3097
50°	2550	2865	3105
55°	2442	2842	3096
60°	2326	2802	3075
65°	2189	2794	3075
70°	2061	2769	2988
75°	1787	2706	2554
80°	1446	2182	1700
85°	960	760	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.4
10°-20°	316.7	9.6
20°-30°	475.1	14.4
30°-40°	566.8	17.2
40°-50°	585.9	17.7
50°-60°	534.9	16.2
60°-70°	421.0	12.7
70°-80°	245.0	7.4
80°-90°	45.1	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°	903.2	27.4
0°-40°	1469.9	44.5
0°-60°	2590.8	78.5
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1176	1172	1166	1176	1174	111
15°	1115	1116	1118	1133	1133	315
25°	1008	1013	1026	1051	1056	464
35°	864	876	904	938	946	540
45°	696	719	761	804	814	537
55°	521	548	606	650	660	466
65°	344	380	439	473	483	341
75°	172	213	260	255	246	183
85°	31	44	25	20	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1180.4	1177.1	1172.2	1180.4	1178.8
5°	1175.5	1172.2	1165.7	1175.5	1173.8
7.5°	1165.7	1162.4	1159.1	1168.9	1167.3
10°	1152.6	1150.9	1149.3	1160.8	1159.1
12.5°	1136.2	1136.2	1134.6	1147.7	1147.7
15°	1114.9	1116.5	1118.2	1132.9	1132.9
17.5°	1095.3	1093.6	1098.5	1114.9	1116.5
20°	1067.4	1070.7	1077.3	1096.9	1098.5
22.5°	1039.6	1042.9	1054.3	1074.0	1078.9
25°	1008.5	1013.4	1026.5	1051.1	1056.0
27.5°	975.8	982.3	1000.3	1026.5	1031.4
30°	939.7	949.6	969.2	998.7	1003.6
32.5°	903.7	913.5	938.1	967.6	974.1
35°	864.4	875.9	903.7	938.1	946.3
37.5°	823.5	838.2	871.0	905.4	915.2
40°	782.6	798.9	835.0	871.0	882.4
42.5°	741.6	758.0	797.3	838.2	849.7
45°	695.8	718.7	761.3	803.8	813.7
47.5°	651.6	676.1	723.6	766.2	779.3
50°	609.0	633.6	684.3	728.5	741.6
52.5°	564.8	591.0	645.0	690.9	702.3
55°	520.6	548.5	605.8	650.0	659.8
57.5°	476.4	505.9	564.8	607.4	618.8
60°	432.2	463.3	520.6	563.2	571.4
62.5°	388.0	420.8	479.7	517.3	525.5
65°	343.8	379.8	438.8	473.1	483.0
67.5°	301.2	337.3	394.6	427.3	435.5
70°	261.9	294.7	352.0	376.5	379.8
72.5°	212.8	253.8	309.4	322.5	314.3
75°	171.9	212.8	260.3	255.4	245.6
77.5°	131.0	171.9	203.0	186.6	173.5
80°	93.3	134.2	140.8	116.2	109.7
82.5°	60.6	93.3	78.6	60.6	49.1
85°	31.1	44.2	24.6	19.6	16.4
87.5°	9.8	6.5	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)