

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: P307967

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP250-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: P307967
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-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB 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: 3285.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

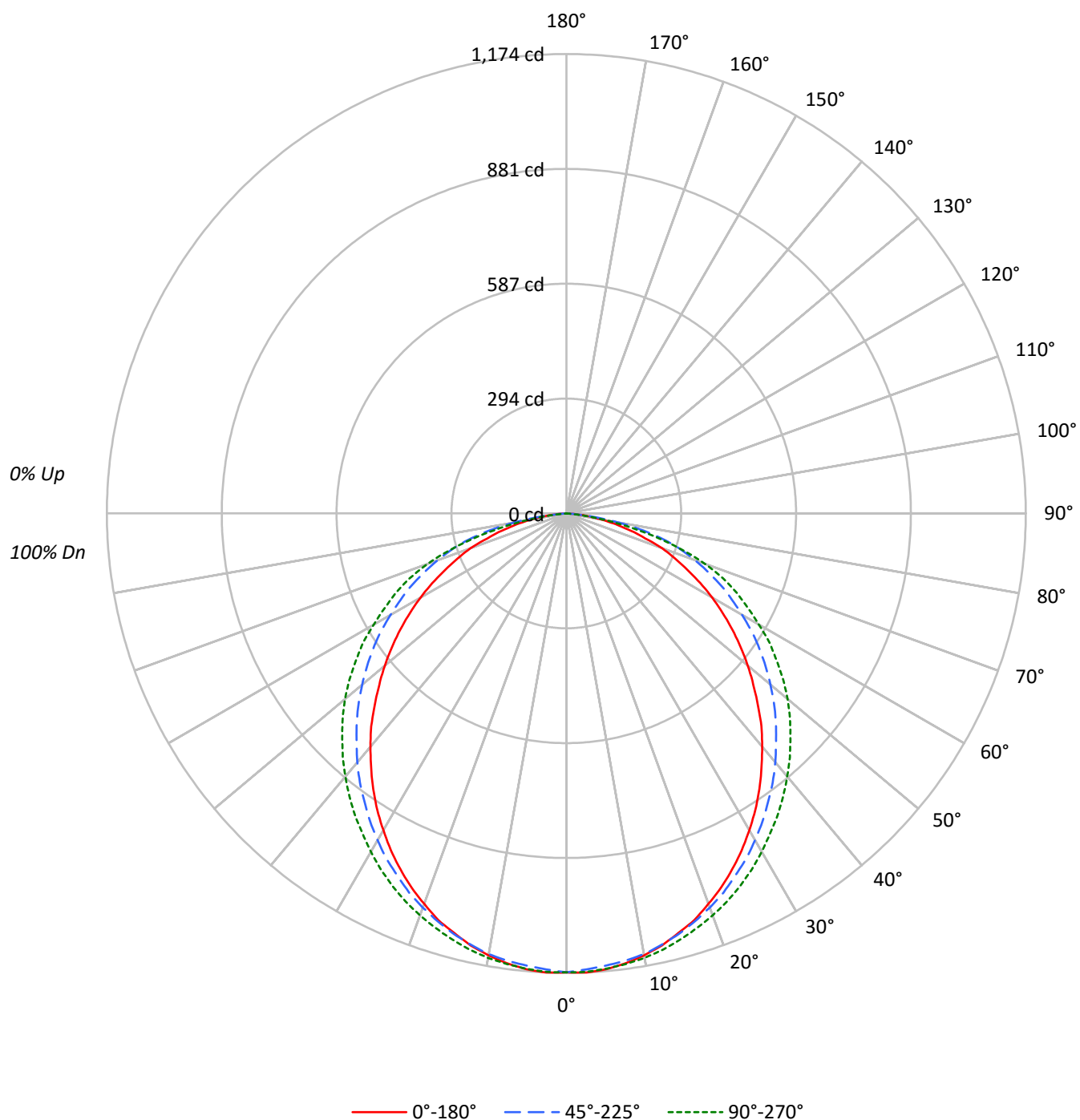
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3156	3156	3156
5°	3159	3133	3155
10°	3133	3124	3151
15°	3090	3099	3140
20°	3041	3069	3130
25°	2979	3032	3119
30°	2905	2996	3102
35°	2825	2954	3093
40°	2735	2918	3084
45°	2634	2882	3081
50°	2537	2850	3089
55°	2430	2827	3080
60°	2314	2787	3059
65°	2178	2779	3060
70°	2050	2755	2973
75°	1778	2693	2540
80°	1438	2171	1691
85°	954	753	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.4
10°-20°	315.1	9.6
20°-30°	472.7	14.4
30°-40°	563.9	17.2
40°-50°	582.9	17.7
50°-60°	532.2	16.2
60°-70°	418.8	12.7
70°-80°	243.8	7.4
80°-90°	44.9	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°	898.5	27.4
0°-40°	1462.4	44.5
0°-60°	2577.5	78.5
0°-90°	3285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1169	1166	1160	1169	1168	111
15°	1109	1111	1112	1127	1127	313
25°	1003	1008	1021	1046	1050	462
35°	860	871	899	933	941	538
45°	692	715	757	800	810	535
55°	518	546	603	647	656	463
65°	342	378	436	471	480	340
75°	171	212	259	254	244	182
85°	31	44	24	20	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.7	1172.7	1172.7	1172.7	1172.7
2.5°	1174.3	1171.1	1166.2	1174.3	1172.7
5°	1169.4	1166.2	1159.7	1169.4	1167.8
7.5°	1159.7	1156.4	1153.1	1162.9	1161.3
10°	1146.6	1145.0	1143.4	1154.8	1153.1
12.5°	1130.3	1130.3	1128.7	1141.7	1141.7
15°	1109.2	1110.8	1112.4	1127.1	1127.1
17.5°	1089.6	1088.0	1092.9	1109.2	1110.8
20°	1061.9	1065.2	1071.7	1091.3	1092.9
22.5°	1034.2	1037.5	1048.9	1068.5	1073.3
25°	1003.3	1008.2	1021.2	1045.6	1050.5
27.5°	970.7	977.2	995.2	1021.2	1026.1
30°	934.9	944.7	964.2	993.5	998.4
32.5°	899.1	908.8	933.3	962.6	969.1
35°	860.0	871.4	899.1	933.3	941.4
37.5°	819.3	833.9	866.5	900.7	910.5
40°	778.5	794.8	830.7	866.5	877.9
42.5°	737.8	754.1	793.2	833.9	845.3
45°	692.2	715.0	757.4	799.7	809.5
47.5°	648.2	672.7	719.9	762.2	775.3
50°	605.9	630.3	680.8	724.8	737.8
52.5°	561.9	588.0	641.7	687.3	698.7
55°	517.9	545.6	602.6	646.6	656.4
57.5°	474.0	503.3	561.9	604.3	615.7
60°	430.0	460.9	517.9	560.3	568.4
62.5°	386.0	418.6	477.2	514.7	522.8
65°	342.0	377.9	436.5	470.7	480.5
67.5°	299.7	335.5	392.5	425.1	433.2
70°	260.6	293.2	350.2	374.6	377.9
72.5°	211.7	252.5	307.8	320.9	312.7
75°	171.0	211.7	259.0	254.1	244.3
77.5°	130.3	171.0	202.0	185.7	172.6
80°	92.8	133.6	140.1	115.6	109.1
82.5°	60.3	92.8	78.2	60.3	48.9
85°	30.9	44.0	24.4	19.5	16.3
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)