

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: P302508

Luminaire Tested: **FSP-14-42-40-CP125**

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: P302508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-42-40-CP125  
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
Light Source: (210) 4000 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

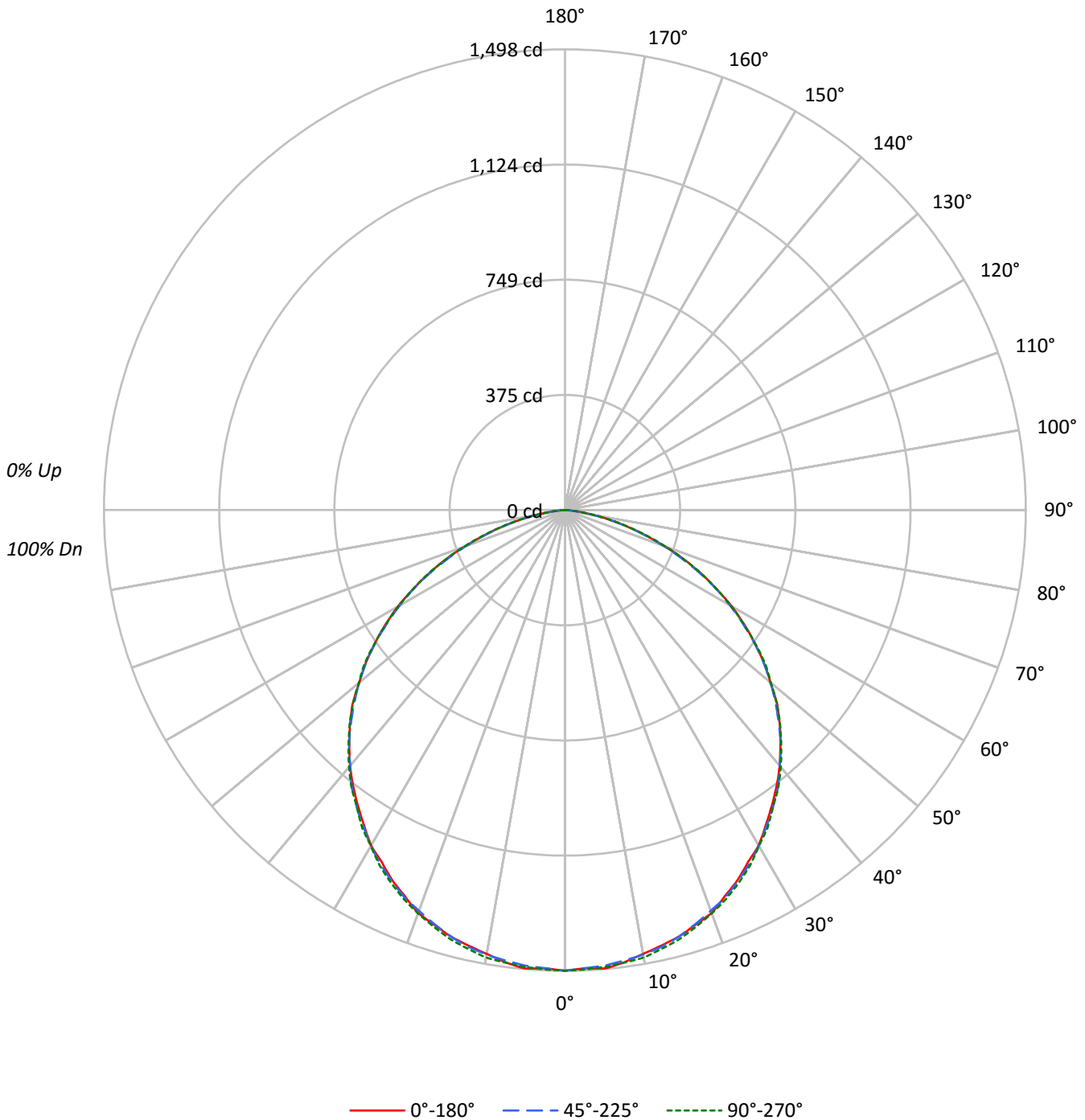
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4069.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4030	4030	4030
5°	4042	4016	4027
10°	4003	4010	4036
15°	3998	3998	4021
20°	3993	3970	3997
25°	3942	3950	3971
30°	3915	3919	3919
35°	3853	3875	3871
40°	3815	3815	3834
45°	3760	3744	3765
50°	3653	3653	3658
55°	3532	3526	3539
60°	3372	3335	3350
65°	3115	3072	3115
70°	2726	2695	2758
75°	2232	2204	2260
80°	1579	1537	1579
85°	756	713	713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	3.5
10°-20°	405.5	10.0
20°-30°	613.6	15.1
30°-40°	737.0	18.1
40°-50°	759.3	18.7
50°-60°	670.5	16.5
60°-70°	477.9	11.7
70°-80°	227.9	5.6
80°-90°	36.4	0.9
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°	1160.7	28.5
0°-40°	1897.7	46.6
0°-60°	3327.4	81.8
0°-90°	4069.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1496	1491	1487	1491	1491	142
15°	1435	1435	1435	1436	1443	405
25°	1328	1325	1330	1337	1337	612
35°	1173	1177	1180	1182	1178	735
45°	988	984	984	988	989	761
55°	753	753	752	748	754	673
65°	489	485	482	477	489	483
75°	215	213	212	209	217	229
85°	24	23	23	23	23	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1497.6	1497.6	1497.6	1497.6	1497.6
2.5°	1490.8	1492.2	1490.8	1496.3	1494.9
5°	1496.3	1490.8	1486.8	1490.8	1490.8
7.5°	1482.7	1478.6	1477.2	1485.4	1484.0
10°	1465.0	1474.5	1467.7	1473.2	1477.2
12.5°	1450.1	1456.9	1454.1	1467.7	1460.9
15°	1435.1	1435.1	1435.1	1436.5	1443.3
17.5°	1413.4	1412.0	1410.7	1416.1	1420.2
20°	1394.3	1383.5	1386.2	1394.3	1395.7
22.5°	1359.0	1364.4	1363.1	1368.5	1368.5
25°	1327.8	1325.0	1330.5	1337.3	1337.3
27.5°	1289.7	1293.8	1297.9	1300.6	1303.3
30°	1259.8	1254.4	1261.2	1262.5	1261.2
32.5°	1215.0	1213.6	1219.0	1225.8	1225.8
35°	1172.8	1176.9	1179.6	1182.3	1178.3
37.5°	1130.7	1129.3	1137.5	1136.1	1138.9
40°	1085.9	1084.5	1085.9	1088.6	1091.3
42.5°	1036.9	1032.8	1038.3	1039.6	1041.0
45°	988.0	983.9	983.9	988.0	989.4
47.5°	936.4	928.2	928.2	929.6	935.0
50°	872.5	871.1	872.5	869.8	873.8
52.5°	815.4	814.0	814.0	811.3	820.8
55°	752.9	752.9	751.5	747.5	754.3
57.5°	690.4	689.0	684.9	684.9	689.0
60°	626.5	622.4	619.7	615.6	622.4
62.5°	555.8	555.8	554.5	546.3	557.2
65°	489.2	485.2	482.4	477.0	489.2
67.5°	419.9	415.9	410.4	409.1	419.9
70°	346.5	347.9	342.5	338.4	350.6
72.5°	277.2	282.7	274.5	273.2	282.7
75°	214.7	213.4	212.0	209.3	217.4
77.5°	154.9	153.6	152.2	149.5	157.6
80°	101.9	101.9	99.2	97.8	101.9
82.5°	57.1	55.7	54.4	55.7	58.4
85°	24.5	23.1	23.1	23.1	23.1
87.5°	5.4	5.4	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)