

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: P302502

Luminaire Tested: **FSP-14-42-35-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: P302502  
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-14-42-35-CP125  
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
Light Source: (238) 3500 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

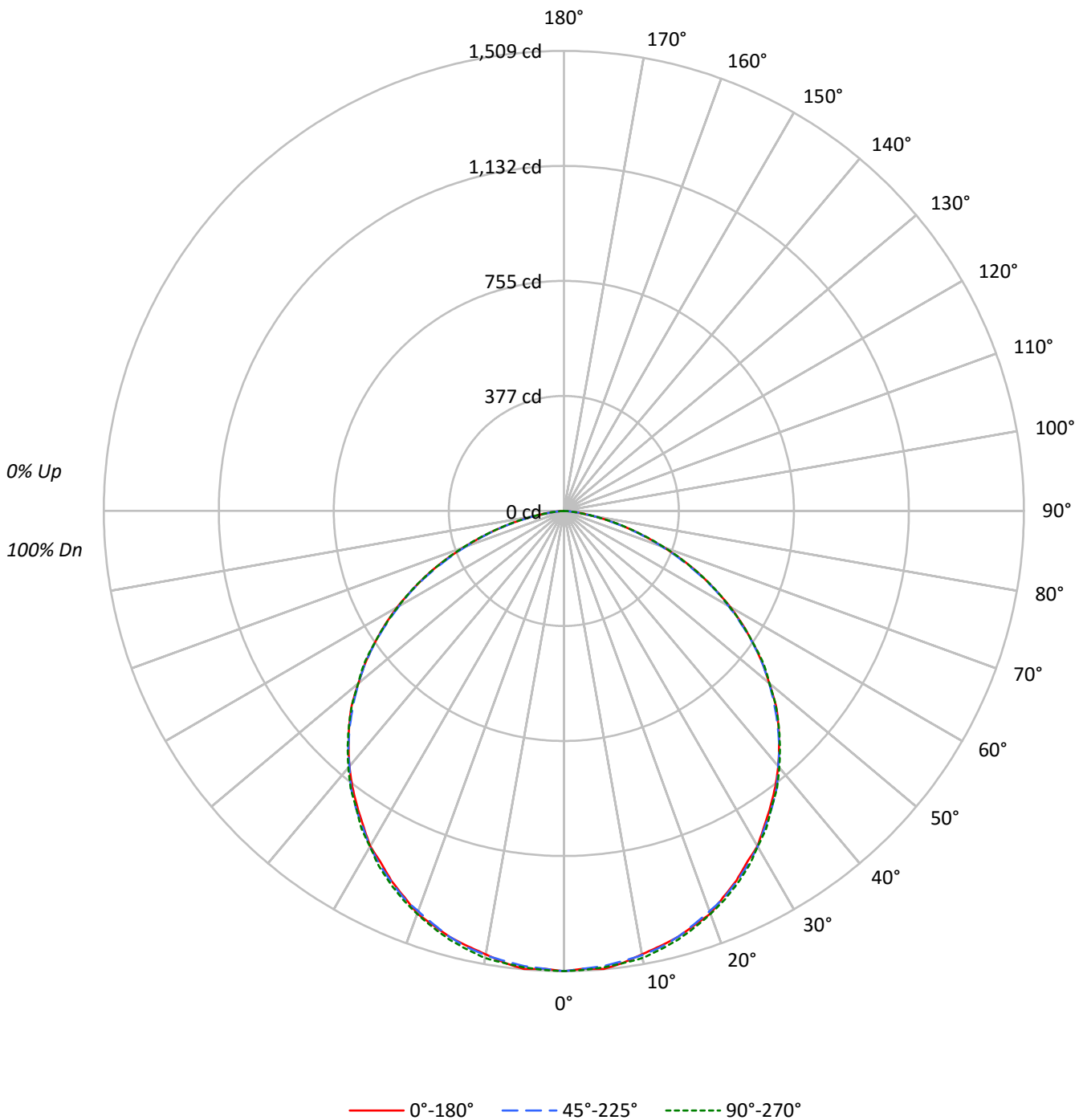
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4101.5 lumens  
Efficiency: N/A  
Efficacy: 107.1 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°	4061	4061	4061
5°	4073	4048	4059
10°	4035	4042	4068
15°	4029	4029	4052
20°	4024	4001	4028
25°	3973	3981	4002
30°	3945	3949	3949
35°	3883	3905	3901
40°	3844	3844	3863
45°	3789	3774	3795
50°	3681	3681	3687
55°	3560	3553	3566
60°	3398	3361	3376
65°	3140	3096	3140
70°	2748	2715	2781
75°	2250	2222	2278
80°	1592	1550	1592
85°	763	719	719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	3.5
10°-20°	408.7	10.0
20°-30°	618.4	15.1
30°-40°	742.7	18.1
40°-50°	765.2	18.7
50°-60°	675.7	16.5
60°-70°	481.7	11.7
70°-80°	229.7	5.6
80°-90°	36.7	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°	1169.8	28.5
0°-40°	1912.5	46.6
0°-60°	3353.4	81.8
0°-90°	4101.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1508	1502	1498	1502	1502	143
15°	1446	1446	1446	1448	1454	408
25°	1338	1335	1341	1348	1348	617
35°	1182	1186	1189	1192	1188	740
45°	996	992	992	996	997	767
55°	759	759	757	753	760	678
65°	493	489	486	481	493	486
75°	216	215	214	211	219	231
85°	25	23	23	23	23	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1509.3	1509.3	1509.3	1509.3	1509.3
2.5°	1502.5	1503.9	1502.5	1508.0	1506.6
5°	1508.0	1502.5	1498.4	1502.5	1502.5
7.5°	1494.3	1490.2	1488.8	1497.0	1495.6
10°	1476.5	1486.0	1479.2	1484.7	1488.8
12.5°	1461.4	1468.2	1465.5	1479.2	1472.3
15°	1446.3	1446.3	1446.3	1447.7	1454.5
17.5°	1424.4	1423.0	1421.7	1427.2	1431.3
20°	1405.2	1394.3	1397.0	1405.2	1406.6
22.5°	1369.6	1375.1	1373.7	1379.2	1379.2
25°	1338.1	1335.4	1340.9	1347.7	1347.7
27.5°	1299.8	1303.9	1308.0	1310.7	1313.5
30°	1269.6	1264.2	1271.0	1272.4	1271.0
32.5°	1224.4	1223.1	1228.6	1235.4	1235.4
35°	1182.0	1186.1	1188.8	1191.6	1187.5
37.5°	1139.5	1138.2	1146.4	1145.0	1147.7
40°	1094.3	1093.0	1094.3	1097.1	1099.8
42.5°	1045.0	1040.9	1046.4	1047.8	1049.1
45°	995.7	991.6	991.6	995.7	997.1
47.5°	943.7	935.5	935.5	936.8	942.3
50°	879.3	877.9	879.3	876.6	880.7
52.5°	821.8	820.4	820.4	817.7	827.3
55°	758.8	758.8	757.4	753.3	760.1
57.5°	695.8	694.4	690.3	690.3	694.4
60°	631.4	627.3	624.5	620.4	627.3
62.5°	560.2	560.2	558.8	550.6	561.5
65°	493.1	489.0	486.2	480.7	493.1
67.5°	423.2	419.1	413.6	412.3	423.2
70°	349.3	350.6	345.1	341.0	353.4
72.5°	279.4	284.9	276.7	275.3	284.9
75°	216.4	215.0	213.7	210.9	219.1
77.5°	156.1	154.8	153.4	150.7	158.9
80°	102.7	102.7	100.0	98.6	102.7
82.5°	57.5	56.2	54.8	56.2	58.9
85°	24.7	23.3	23.3	23.3	23.3
87.5°	5.5	5.5	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)