

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: P302592

Luminaire Tested: **FSP-24-31-35-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: P302592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-31-35-CP125  
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
Light Source: (266) 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**

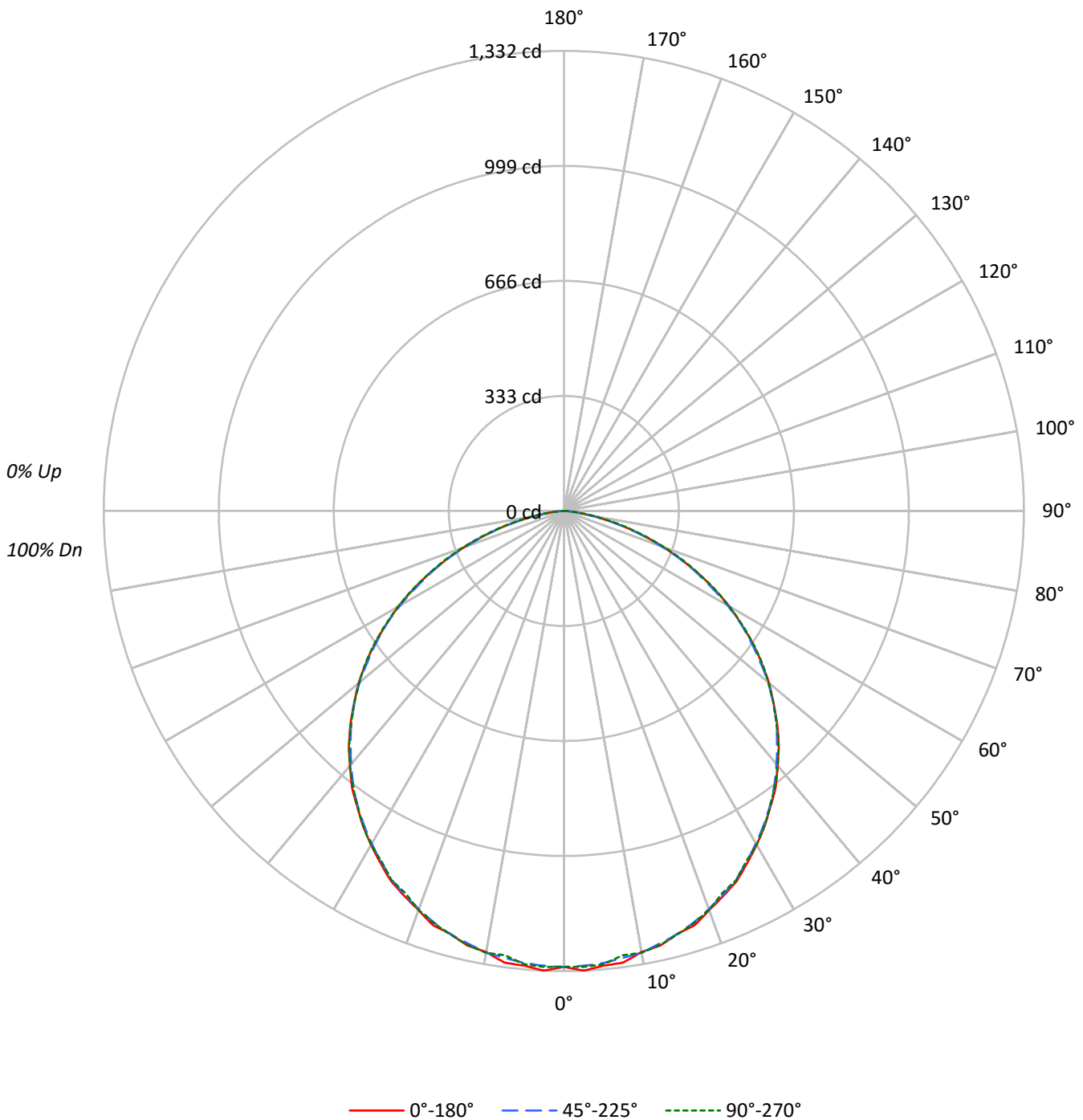
Lumens per Lamp: N/A  
Luminaire Lumens: 3601.8 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.3  
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	54	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	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	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°	1776	1776	1776
5°	1784	1774	1779
10°	1771	1774	1774
15°	1766	1767	1769
20°	1761	1757	1760
25°	1756	1750	1751
30°	1734	1728	1734
35°	1714	1710	1712
40°	1691	1682	1691
45°	1663	1657	1657
50°	1623	1616	1618
55°	1565	1552	1570
60°	1489	1475	1489
65°	1372	1355	1376
70°	1211	1190	1228
75°	981	981	1015
80°	681	681	723
85°	330	330	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	3.5
10°-20°	358.1	9.9
20°-30°	542.3	15.1
30°-40°	651.9	18.1
40°-50°	672.1	18.7
50°-60°	593.6	16.5
60°-70°	423.3	11.8
70°-80°	202.1	5.6
80°-90°	33.5	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°	1025.4	28.5
0°-40°	1677.3	46.6
0°-60°	2943.0	81.7
0°-90°	3601.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1321	1315	1314	1312	1317	126
15°	1268	1271	1269	1268	1270	359
25°	1183	1178	1178	1176	1180	544
35°	1043	1040	1041	1042	1042	654
45°	874	872	871	872	871	673
55°	667	665	662	664	669	595
65°	431	433	426	425	432	426
75°	189	191	189	184	195	202
85°	21	21	21	22	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1320.1	1320.1	1320.1	1320.1	1320.1
2.5°	1331.9	1320.1	1317.9	1320.1	1321.2
5°	1321.2	1314.7	1313.6	1311.5	1316.9
7.5°	1319.0	1310.4	1305.1	1305.1	1297.6
10°	1296.5	1300.8	1298.6	1294.3	1298.6
12.5°	1289.0	1284.7	1282.5	1282.5	1286.8
15°	1267.5	1270.8	1268.6	1267.5	1269.7
17.5°	1257.9	1252.5	1249.3	1248.2	1251.4
20°	1230.0	1226.8	1226.8	1227.9	1228.9
22.5°	1206.4	1202.1	1203.2	1206.4	1197.8
25°	1182.8	1178.5	1178.5	1176.4	1179.6
27.5°	1149.6	1147.4	1145.3	1147.4	1143.1
30°	1116.3	1113.1	1112.0	1115.3	1116.3
32.5°	1082.0	1079.9	1077.7	1078.8	1080.9
35°	1043.4	1040.2	1041.3	1042.3	1042.3
37.5°	1008.0	1002.7	1001.6	1004.8	1003.7
40°	963.0	965.1	957.6	961.9	963.0
42.5°	921.2	916.9	913.7	923.3	920.1
45°	874.0	871.8	870.8	871.8	870.8
47.5°	823.6	824.6	821.4	825.7	822.5
50°	775.3	776.4	772.1	772.1	773.2
52.5°	721.7	724.9	716.3	715.3	723.8
55°	667.0	664.9	661.6	663.8	669.2
57.5°	609.1	610.2	608.0	609.1	611.2
60°	553.3	551.2	548.0	542.6	553.3
62.5°	492.2	494.4	484.7	484.7	495.4
65°	431.1	433.2	425.7	424.7	432.2
67.5°	368.9	368.9	365.7	360.3	374.3
70°	307.8	307.8	302.4	302.4	312.1
72.5°	246.6	245.6	244.5	241.3	252.0
75°	188.7	190.9	188.7	184.4	195.2
77.5°	135.1	137.3	134.0	135.1	140.5
80°	87.9	87.9	87.9	86.9	93.3
82.5°	51.5	50.4	50.4	51.5	53.6
85°	21.4	21.4	21.4	22.5	23.6
87.5°	5.4	5.4	6.4	5.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)