

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: P302573

Luminaire Tested: **FSP-22-42-40-CA125**

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: P302573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-42-40-CA125  
Description: 2x2 Fail Safe Flat Panel Clear Acrylic 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

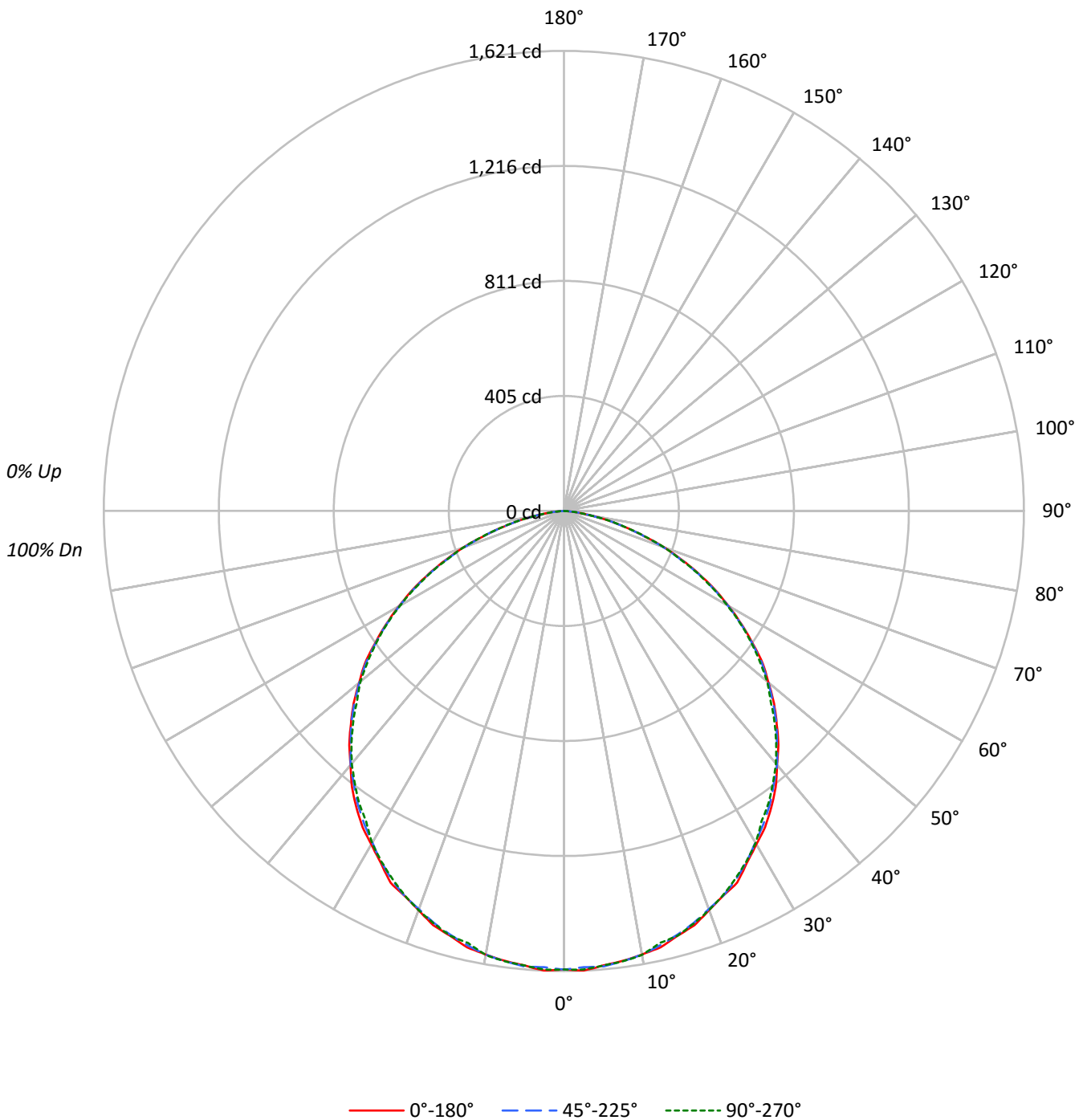
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4379.7 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' 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	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°	4348	4348	4348
5°	4341	4351	4341
10°	4336	4336	4340
15°	4316	4306	4316
20°	4285	4275	4285
25°	4291	4255	4245
30°	4215	4193	4199
35°	4187	4153	4131
40°	4105	4105	4082
45°	4039	4032	3993
50°	3943	3936	3914
55°	3810	3794	3778
60°	3609	3599	3581
65°	3346	3324	3314
70°	2980	2926	2967
75°	2394	2377	2394
80°	1719	1666	1666
85°	843	843	843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	3.5
10°-20°	436.6	10.0
20°-30°	659.4	15.1
30°-40°	790.7	18.1
40°-50°	814.4	18.6
50°-60°	721.2	16.5
60°-70°	515.8	11.8
70°-80°	246.9	5.6
80°-90°	41.7	1.0
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°	1248.9	28.5
0°-40°	2039.6	46.6
0°-60°	3575.2	81.6
0°-90°	4379.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4379.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1607	1606	1611	1607	1607	153
15°	1549	1549	1546	1546	1549	438
25°	1445	1435	1433	1428	1430	662
35°	1274	1268	1264	1261	1257	796
45°	1061	1060	1060	1054	1049	819
55°	812	809	809	804	805	725
65°	526	522	522	522	520	520
75°	230	230	229	229	230	248
85°	27	27	27	27	27	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1620.8	1615.7	1608.9	1614.0	1617.4
5°	1607.2	1605.5	1610.6	1607.2	1607.2
7.5°	1598.6	1602.0	1600.3	1600.3	1600.3
10°	1586.7	1586.7	1586.7	1585.0	1588.4
12.5°	1574.7	1566.2	1567.9	1567.9	1559.4
15°	1549.2	1549.2	1545.7	1545.7	1549.2
17.5°	1530.4	1527.0	1521.9	1521.9	1523.6
20°	1496.3	1496.3	1492.9	1489.4	1496.3
22.5°	1467.3	1474.1	1467.3	1460.4	1465.6
25°	1445.1	1434.8	1433.1	1428.0	1429.7
27.5°	1397.3	1392.2	1393.9	1390.5	1392.2
30°	1356.4	1352.9	1349.5	1346.1	1351.2
32.5°	1320.5	1317.1	1308.6	1306.9	1296.6
35°	1274.5	1267.6	1264.2	1260.8	1257.4
37.5°	1226.7	1219.9	1214.8	1213.0	1209.6
40°	1168.7	1165.3	1168.7	1160.2	1161.9
42.5°	1119.2	1115.8	1110.7	1107.3	1107.3
45°	1061.2	1059.5	1059.5	1054.4	1049.3
47.5°	1004.9	1003.2	999.8	993.0	987.8
50°	941.8	943.5	940.1	933.2	935.0
52.5°	883.8	873.5	878.6	871.8	870.1
55°	812.1	808.7	808.7	803.6	805.3
57.5°	742.2	742.2	738.7	738.7	737.0
60°	670.5	668.8	668.8	667.1	665.4
62.5°	600.6	598.8	595.4	595.4	593.7
65°	525.5	522.1	522.1	522.1	520.4
67.5°	450.4	447.0	445.3	445.3	443.6
70°	378.8	373.6	371.9	371.9	377.1
72.5°	298.6	300.3	298.6	300.3	302.0
75°	230.3	230.3	228.6	228.6	230.3
77.5°	167.2	167.2	167.2	167.2	168.9
80°	110.9	107.5	107.5	107.5	107.5
82.5°	61.4	61.4	61.4	63.1	64.8
85°	27.3	27.3	27.3	27.3	27.3
87.5°	10.2	10.2	10.2	10.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)