

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: P302579

Luminaire Tested: **FSP-22-42-50-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: P302579  
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-22-42-50-CA125  
Description: 2x2 Fail Safe Flat Panel Clear Acrylic Lens .125"  
Light Source: (210) 5000 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

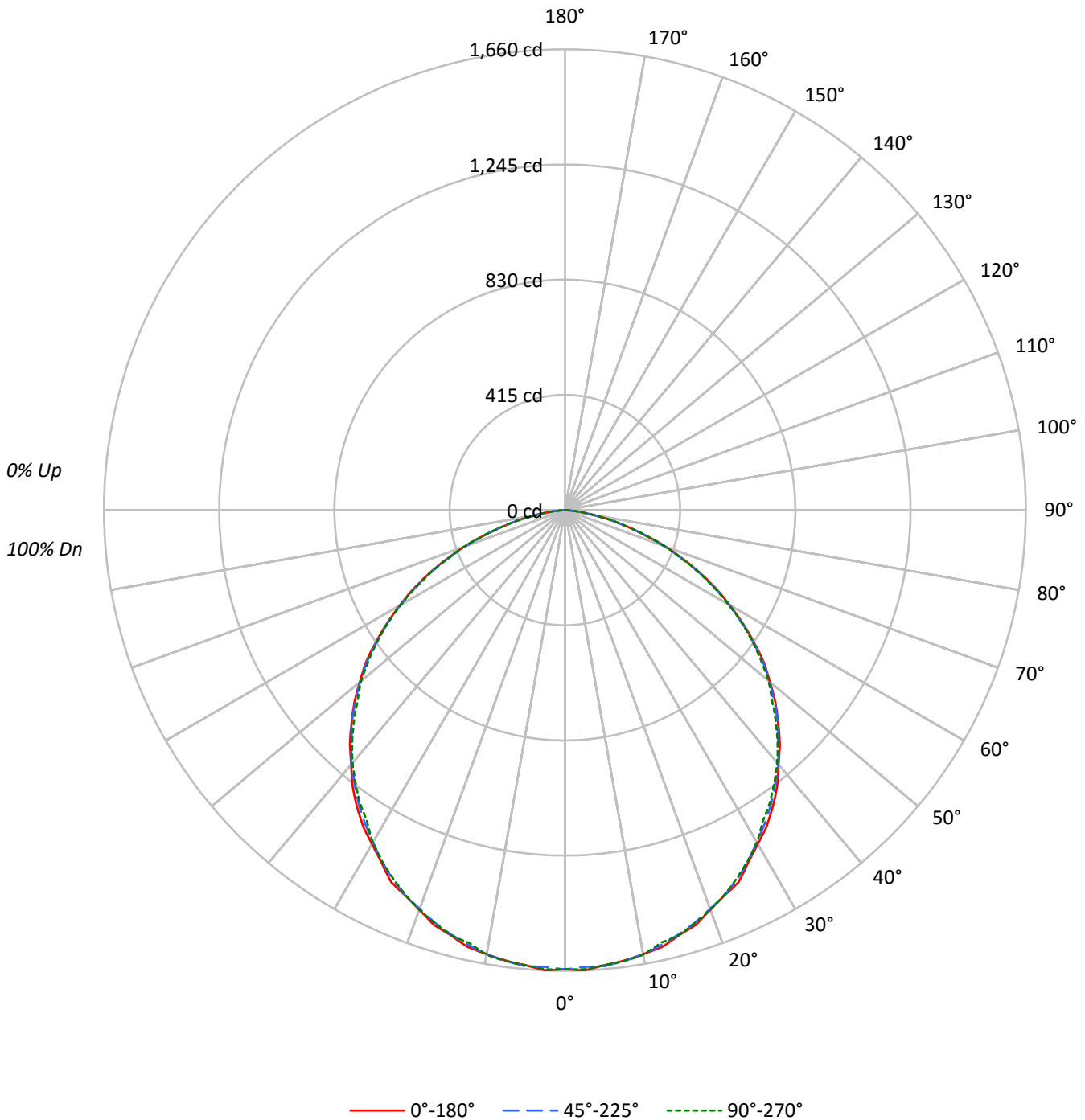
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4484.7 lumens  
Efficiency: N/A  
Efficacy: 117.1 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°	4452	4452	4452
5°	4445	4455	4445
10°	4439	4439	4444
15°	4419	4410	4419
20°	4387	4377	4387
25°	4393	4357	4347
30°	4316	4294	4299
35°	4287	4253	4230
40°	4204	4204	4179
45°	4135	4129	4089
50°	4037	4030	4008
55°	3902	3885	3869
60°	3695	3686	3667
65°	3426	3404	3393
70°	3051	2996	3038
75°	2452	2434	2452
80°	1760	1706	1706
85°	865	865	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	3.5
10°-20°	447.1	10.0
20°-30°	675.2	15.1
30°-40°	809.6	18.1
40°-50°	833.9	18.6
50°-60°	738.5	16.5
60°-70°	528.2	11.8
70°-80°	252.9	5.6
80°-90°	42.8	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°	1278.8	28.5
0°-40°	2088.4	46.6
0°-60°	3660.9	81.6
0°-90°	4484.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1646	1644	1649	1646	1646	157
15°	1586	1586	1583	1583	1586	448
25°	1480	1469	1468	1462	1464	678
35°	1305	1298	1294	1291	1288	815
45°	1087	1085	1085	1080	1074	838
55°	832	828	828	823	825	743
65°	538	535	535	535	533	532
75°	236	236	234	234	236	254
85°	28	28	28	28	28	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1654.4	1654.4	1654.4	1654.4	1654.4
2.5°	1659.7	1654.4	1647.4	1652.7	1656.2
5°	1645.7	1643.9	1649.2	1645.7	1645.7
7.5°	1636.9	1640.4	1638.7	1638.7	1638.7
10°	1624.7	1624.7	1624.7	1623.0	1626.5
12.5°	1612.5	1603.7	1605.5	1605.5	1596.8
15°	1586.3	1586.3	1582.8	1582.8	1586.3
17.5°	1567.1	1563.6	1558.3	1558.3	1560.1
20°	1532.1	1532.1	1528.6	1525.1	1532.1
22.5°	1502.4	1509.4	1502.4	1495.4	1500.7
25°	1479.7	1469.2	1467.5	1462.2	1464.0
27.5°	1430.8	1425.6	1427.3	1423.8	1425.6
30°	1388.9	1385.4	1381.9	1378.4	1383.6
32.5°	1352.2	1348.7	1339.9	1338.2	1327.7
35°	1305.0	1298.0	1294.5	1291.0	1287.5
37.5°	1256.1	1249.1	1243.9	1242.1	1238.6
40°	1196.7	1193.2	1196.7	1188.0	1189.7
42.5°	1146.0	1142.5	1137.3	1133.8	1133.8
45°	1086.6	1084.9	1084.9	1079.6	1074.4
47.5°	1029.0	1027.2	1023.7	1016.8	1011.5
50°	964.3	966.1	962.6	955.6	957.4
52.5°	904.9	894.5	899.7	892.7	891.0
55°	831.6	828.1	828.1	822.8	824.6
57.5°	759.9	759.9	756.5	756.5	754.7
60°	686.6	684.8	684.8	683.1	681.3
62.5°	614.9	613.2	609.7	609.7	608.0
65°	538.1	534.6	534.6	534.6	532.8
67.5°	461.2	457.7	456.0	456.0	454.2
70°	387.8	382.6	380.8	380.8	386.1
72.5°	305.7	307.5	305.7	307.5	309.2
75°	235.8	235.8	234.1	234.1	235.8
77.5°	171.2	171.2	171.2	171.2	173.0
80°	113.6	110.1	110.1	110.1	110.1
82.5°	62.9	62.9	62.9	64.6	66.4
85°	28.0	28.0	28.0	28.0	28.0
87.5°	10.5	10.5	10.5	10.5	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)