

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: P302500

Luminaire Tested: **FSP-14-42-35-CA08**

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: P302500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-2)  
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-CA08  
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .08"  
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

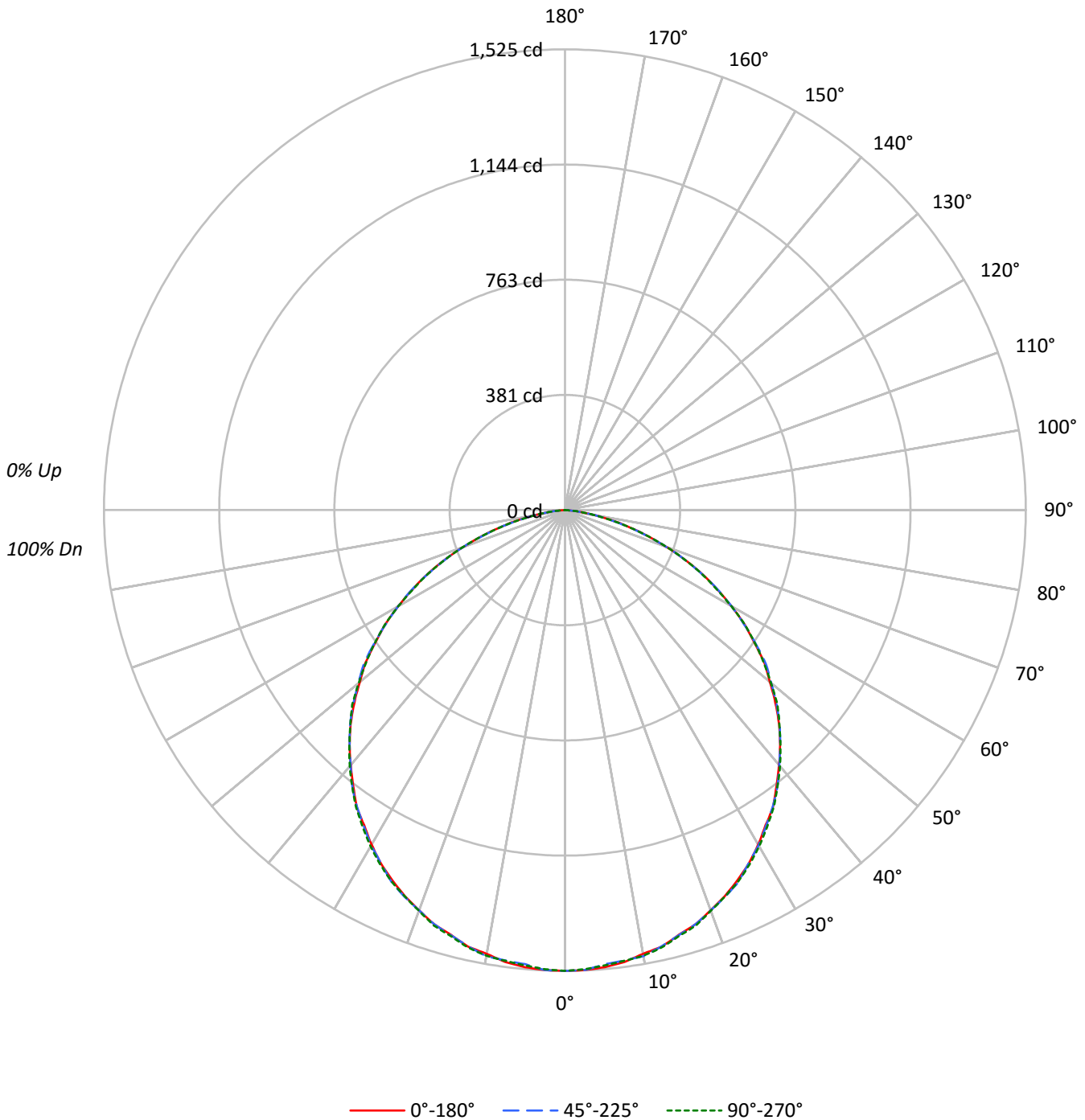
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4164.8 lumens  
Efficiency: N/A  
Efficacy: 108.7 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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	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	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	4104	4104	4104
5°	4102	4076	4087
10°	4074	4097	4093
15°	4055	4058	4066
20°	4038	4038	4042
25°	4012	4033	4029
30°	3974	3982	3995
35°	3944	3940	3954
40°	3871	3876	3891
45°	3814	3824	3819
50°	3708	3731	3725
55°	3590	3616	3604
60°	3426	3426	3419
65°	3200	3182	3182
70°	2811	2822	2833
75°	2334	2321	2306
80°	1655	1655	1613
85°	846	803	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	3.5
10°-20°	412.7	9.9
20°-30°	624.4	15.0
30°-40°	750.4	18.0
40°-50°	774.4	18.6
50°-60°	687.0	16.5
60°-70°	493.7	11.9
70°-80°	238.1	5.7
80°-90°	39.9	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°	1181.3	28.4
0°-40°	1931.7	46.4
0°-60°	3393.1	81.5
0°-90°	4164.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1518	1518	1509	1520	1513	144
15°	1455	1465	1457	1468	1460	412
25°	1351	1354	1358	1358	1357	623
35°	1201	1201	1199	1202	1204	748
45°	1002	1004	1005	1006	1004	771
55°	765	771	771	769	768	685
65°	502	504	500	496	500	494
75°	224	222	223	223	222	240
85°	27	26	26	27	26	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1525.2	1525.2	1525.2	1525.2	1525.2
2.5°	1523.8	1527.9	1523.8	1526.6	1521.1
5°	1518.4	1518.4	1508.8	1519.7	1512.9
7.5°	1508.8	1510.1	1503.3	1514.2	1504.7
10°	1491.0	1500.6	1499.2	1503.3	1497.8
12.5°	1480.0	1484.1	1478.7	1486.9	1482.8
15°	1455.4	1465.0	1456.7	1467.7	1459.5
17.5°	1437.6	1438.9	1437.6	1443.1	1441.7
20°	1410.2	1412.9	1410.2	1419.8	1411.6
22.5°	1382.8	1385.6	1385.6	1389.7	1384.2
25°	1351.3	1354.1	1358.2	1358.2	1356.8
27.5°	1318.5	1317.1	1317.1	1326.7	1322.6
30°	1278.8	1284.2	1281.5	1288.3	1285.6
32.5°	1236.3	1241.8	1239.1	1245.9	1244.5
35°	1200.7	1200.7	1199.4	1202.1	1203.5
37.5°	1150.1	1151.4	1155.5	1158.3	1155.5
40°	1102.1	1106.3	1103.5	1106.3	1107.6
42.5°	1054.2	1058.3	1054.2	1061.1	1055.6
45°	1002.2	1003.6	1004.9	1006.3	1003.6
47.5°	944.7	951.5	950.2	952.9	954.3
50°	885.8	895.4	891.3	894.0	889.9
52.5°	832.4	832.4	839.3	831.1	829.7
55°	765.3	770.8	770.8	769.4	768.1
57.5°	705.1	707.8	702.4	705.1	706.5
60°	636.6	639.4	636.6	635.3	635.3
62.5°	568.2	570.9	570.9	569.6	565.4
65°	502.5	503.8	499.7	495.6	499.7
67.5°	431.3	429.9	429.9	427.2	429.9
70°	357.3	361.4	358.7	356.0	360.1
72.5°	288.9	291.6	287.5	286.1	288.9
75°	224.5	221.8	223.2	223.2	221.8
77.5°	165.7	161.6	158.8	158.8	160.2
80°	106.8	105.4	106.8	104.1	104.1
82.5°	60.2	60.2	60.2	60.2	61.6
85°	27.4	26.0	26.0	27.4	26.0
87.5°	6.8	6.8	8.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)