

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: P302566

Luminaire Tested: **FSP-22-42-35-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: P302566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-42-35-CA08  
Description: 2x2 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**

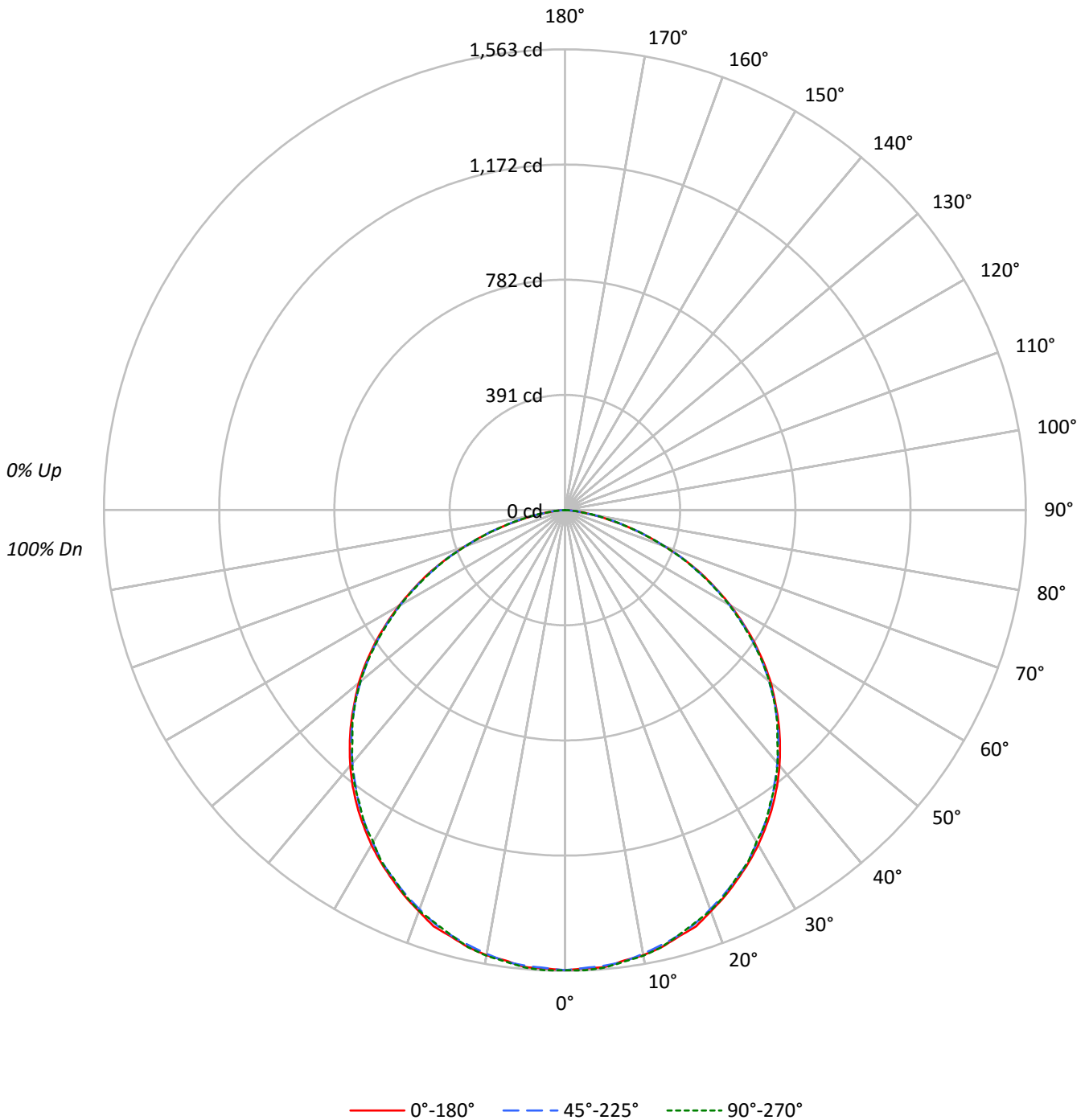
Lumens per Lamp: N/A  
Luminaire Lumens: 4234.2 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.8  
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	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	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	41	52	46	41	39
7	66	52	44	37	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°	4201	4201	4201
5°	4203	4190	4208
10°	4189	4176	4194
15°	4170	4161	4157
20°	4145	4127	4141
25°	4108	4093	4089
30°	4075	4049	4039
35°	4032	4000	3989
40°	3977	3937	3942
45°	3902	3877	3877
50°	3818	3784	3790
55°	3685	3654	3646
60°	3493	3476	3467
65°	3254	3212	3202
70°	2832	2832	2818
75°	2324	2306	2306
80°	1655	1604	1681
85°	861	861	861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	3.5
10°-20°	421.6	10.0
20°-30°	636.3	15.0
30°-40°	764.0	18.0
40°-50°	787.5	18.6
50°-60°	697.5	16.5
60°-70°	499.6	11.8
70°-80°	238.6	5.6
80°-90°	41.6	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°	1205.4	28.5
0°-40°	1969.3	46.5
0°-60°	3454.4	81.6
0°-90°	4234.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1556	1551	1551	1553	1558	148
15°	1497	1499	1494	1490	1492	423
25°	1384	1382	1379	1379	1377	638
35°	1228	1228	1218	1221	1214	768
45°	1025	1025	1019	1017	1019	790
55°	785	789	779	779	777	701
65°	511	508	504	503	503	502
75°	224	218	222	225	222	238
85°	28	30	28	28	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1561.0	1561.0	1561.0	1561.0	1561.0
2.5°	1556.1	1556.1	1554.5	1557.7	1562.7
5°	1556.1	1551.2	1551.2	1552.8	1557.7
7.5°	1541.3	1543.0	1544.6	1541.3	1544.6
10°	1533.1	1529.8	1528.2	1531.4	1534.7
12.5°	1518.3	1515.0	1511.7	1515.0	1518.3
15°	1496.9	1498.6	1493.7	1490.4	1492.0
17.5°	1480.5	1470.7	1470.7	1469.0	1467.4
20°	1447.6	1444.4	1441.1	1442.7	1446.0
22.5°	1418.1	1416.4	1411.5	1413.1	1414.8
25°	1383.6	1381.9	1378.6	1378.6	1377.0
27.5°	1349.1	1347.4	1344.1	1342.5	1345.8
30°	1311.3	1312.9	1303.0	1303.0	1299.8
32.5°	1270.2	1270.2	1262.0	1258.7	1263.6
35°	1227.5	1227.5	1217.6	1220.9	1214.3
37.5°	1181.5	1184.7	1168.3	1173.2	1171.6
40°	1132.2	1128.9	1120.7	1130.5	1122.3
42.5°	1079.6	1084.5	1073.0	1073.0	1066.4
45°	1025.3	1025.3	1018.8	1017.1	1018.8
47.5°	967.8	969.5	964.6	966.2	962.9
50°	912.0	910.3	903.8	902.1	905.4
52.5°	849.5	851.2	843.0	844.6	843.0
55°	785.4	788.7	778.9	778.9	777.2
57.5°	718.1	718.1	713.1	713.1	709.9
60°	649.1	654.0	645.8	645.8	644.1
62.5°	578.4	578.4	575.1	576.8	573.5
65°	511.0	507.7	504.5	502.8	502.8
67.5°	437.1	433.8	437.1	432.2	433.8
70°	359.9	361.5	359.9	359.9	358.2
72.5°	290.8	290.8	292.5	290.8	290.8
75°	223.5	218.5	221.8	225.1	221.8
77.5°	157.7	157.7	161.0	161.0	162.7
80°	106.8	103.5	103.5	106.8	108.5
82.5°	59.2	60.8	60.8	60.8	60.8
85°	27.9	29.6	27.9	27.9	27.9
87.5°	13.1	13.1	11.5	9.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)