

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: P302619

Luminaire Tested: **FSP-24-47-35-CP375**

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: P302619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-21)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-47-35-CP375  
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"  
Light Source: (252) 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

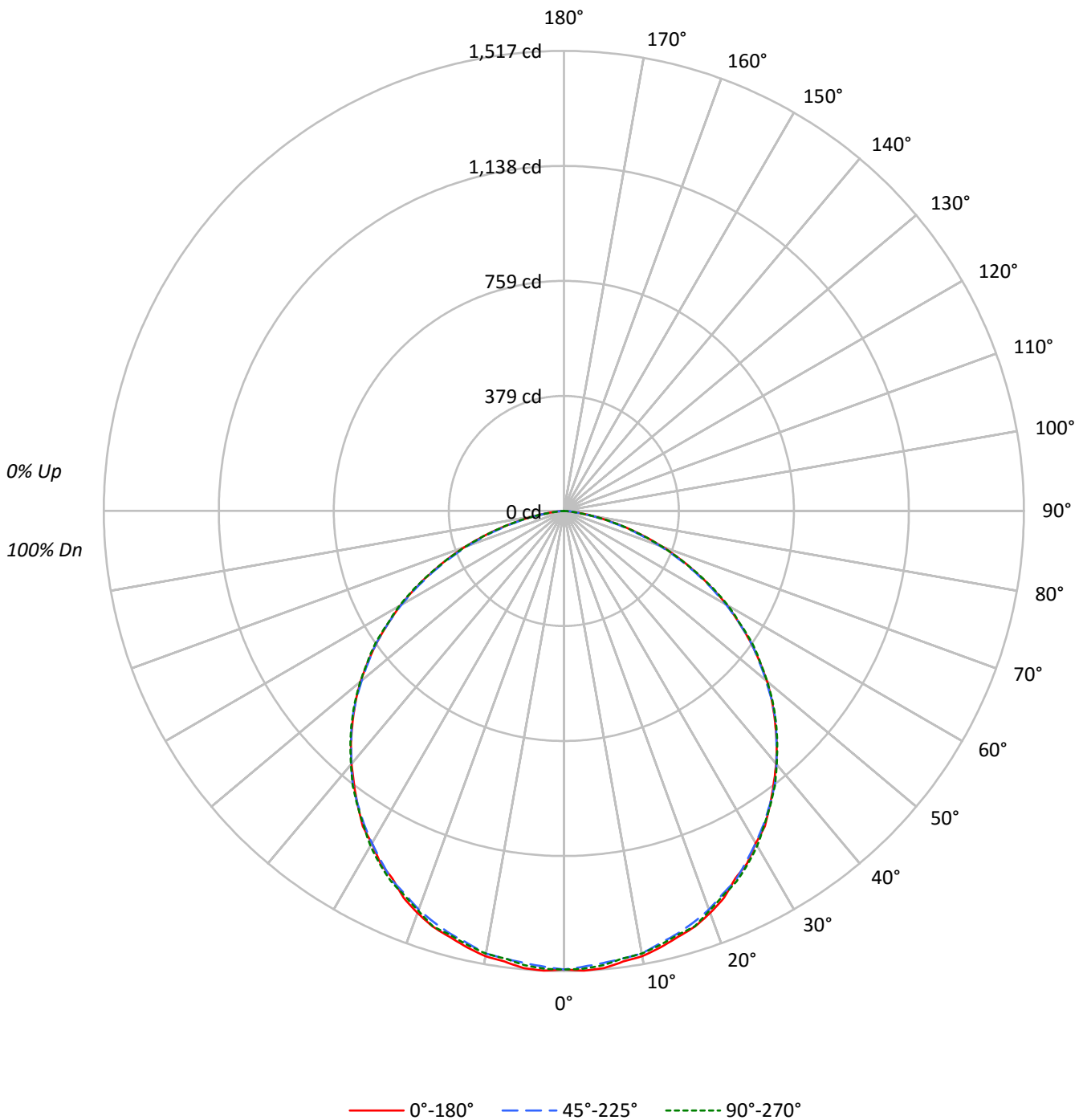
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.4 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.4  
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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2034	2034	2034
5°	2044	2021	2030
10°	2037	2024	2024
15°	2025	2011	2016
20°	2020	2003	2009
25°	1985	1993	2001
30°	1965	1965	1982
35°	1946	1944	1948
40°	1913	1915	1917
45°	1874	1882	1882
50°	1831	1820	1834
55°	1759	1762	1778
60°	1672	1665	1686
65°	1535	1518	1543
70°	1364	1323	1359
75°	1106	1058	1099
80°	763	712	763
85°	344	304	324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	3.5
10°-20°	409.0	10.1
20°-30°	617.6	15.2
30°-40°	740.3	18.2
40°-50°	760.0	18.7
50°-60°	668.5	16.4
60°-70°	472.9	11.6
70°-80°	222.0	5.5
80°-90°	34.2	0.8
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°	1169.4	28.8
0°-40°	1909.7	47.0
0°-60°	3338.3	82.1
0°-90°	4067.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1513	1509	1496	1503	1503	144
15°	1454	1450	1444	1445	1448	411
25°	1337	1337	1342	1338	1348	619
35°	1185	1181	1184	1185	1186	741
45°	985	982	989	990	989	760
55°	750	750	751	747	758	670
65°	482	476	477	474	485	478
75°	213	206	204	206	212	228
85°	22	22	20	21	21	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1517.1	1514.5	1504.0	1506.6	1510.6
5°	1513.2	1509.2	1496.1	1502.7	1502.7
7.5°	1498.7	1494.8	1488.2	1492.2	1488.2
10°	1490.8	1489.5	1481.7	1480.3	1481.7
12.5°	1473.8	1469.8	1460.6	1467.2	1465.9
15°	1454.1	1450.1	1443.6	1444.9	1447.5
17.5°	1437.0	1434.4	1422.5	1426.5	1435.7
20°	1410.7	1401.5	1398.9	1400.2	1402.8
22.5°	1380.5	1373.9	1367.4	1370.0	1372.6
25°	1337.2	1337.2	1342.4	1338.5	1347.7
27.5°	1309.6	1307.0	1303.0	1303.0	1313.5
30°	1264.9	1264.9	1264.9	1268.9	1275.4
32.5°	1233.4	1228.1	1225.5	1226.8	1229.5
35°	1184.8	1180.9	1183.5	1184.8	1186.1
37.5°	1136.2	1134.9	1141.5	1137.5	1142.8
40°	1088.9	1086.3	1090.2	1087.6	1091.5
42.5°	1039.0	1033.7	1037.7	1040.3	1041.6
45°	985.1	982.5	989.1	990.4	989.1
47.5°	931.3	927.3	931.3	935.2	935.2
50°	874.8	869.6	869.6	873.5	876.1
52.5°	813.1	807.8	810.4	814.4	815.7
55°	750.0	750.0	751.3	747.4	757.9
57.5°	684.3	679.1	684.3	681.7	687.0
60°	621.3	617.4	618.7	613.4	626.6
62.5°	551.7	547.7	546.4	545.1	556.9
65°	482.1	475.5	476.8	474.2	484.7
67.5°	415.1	408.5	405.9	405.9	413.8
70°	346.8	336.3	336.3	333.6	345.5
72.5°	278.5	270.6	266.6	269.3	278.5
75°	212.8	206.2	203.6	206.2	211.5
77.5°	151.1	148.4	144.5	147.1	152.4
80°	98.5	95.9	91.9	95.9	98.5
82.5°	53.9	52.5	49.9	52.5	52.5
85°	22.3	22.3	19.7	21.0	21.0
87.5°	6.6	5.3	5.3	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)