

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: P302628

Luminaire Tested: **FSP-24-47-50-CP125**

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: P302628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-47-50-CP125  
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
Light Source: (238) 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

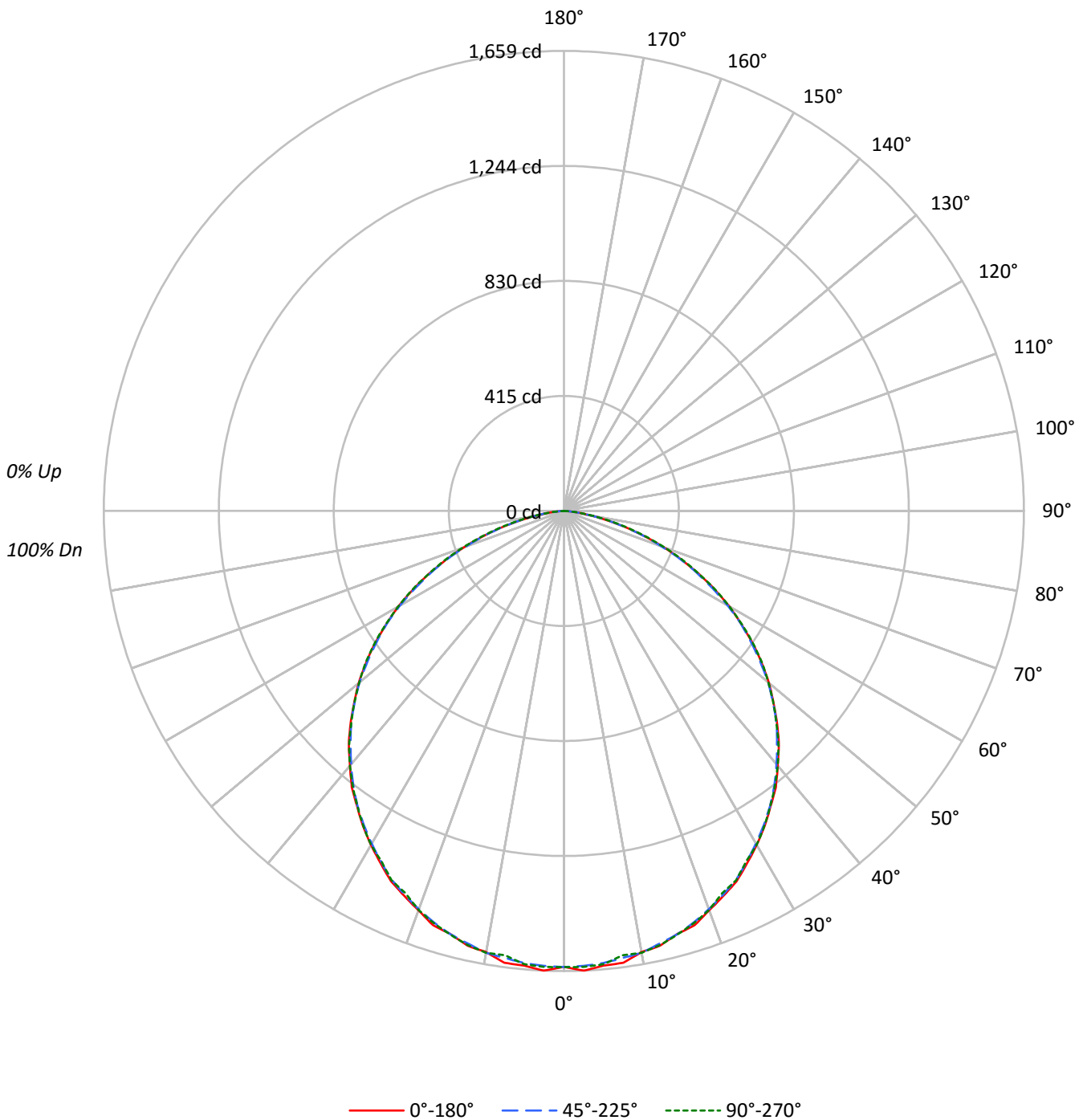
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4486.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
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 (Ain): 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°	2213	2213	2213
5°	2223	2210	2216
10°	2206	2210	2210
15°	2199	2201	2203
20°	2194	2188	2192
25°	2187	2179	2181
30°	2160	2152	2160
35°	2135	2131	2133
40°	2107	2095	2107
45°	2072	2064	2064
50°	2022	2013	2016
55°	1949	1933	1955
60°	1855	1837	1855
65°	1710	1688	1714
70°	1508	1482	1529
75°	1222	1222	1264
80°	848	848	900
85°	412	412	454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	3.5
10°-20°	446.1	9.9
20°-30°	675.5	15.1
30°-40°	812.1	18.1
40°-50°	837.2	18.7
50°-60°	739.4	16.5
60°-70°	527.3	11.8
70°-80°	251.7	5.6
80°-90°	41.7	0.9
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°	1277.3	28.5
0°-40°	2089.3	46.6
0°-60°	3666.0	81.7
0°-90°	4486.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1646	1638	1636	1634	1640	157
15°	1579	1583	1580	1579	1582	447
25°	1473	1468	1468	1465	1469	677
35°	1300	1296	1297	1298	1298	814
45°	1089	1086	1085	1086	1085	839
55°	831	828	824	827	834	741
65°	537	540	530	529	538	531
75°	235	238	235	230	243	252
85°	27	27	27	28	29	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1644.4	1644.4	1644.4	1644.4	1644.4
2.5°	1659.1	1644.4	1641.7	1644.4	1645.7
5°	1645.7	1637.7	1636.4	1633.7	1640.4
7.5°	1643.0	1632.3	1625.7	1625.7	1616.3
10°	1615.0	1620.3	1617.7	1612.3	1617.7
12.5°	1605.6	1600.3	1597.6	1597.6	1603.0
15°	1578.9	1582.9	1580.2	1578.9	1581.6
17.5°	1566.9	1560.2	1556.2	1554.9	1558.9
20°	1532.2	1528.2	1528.2	1529.5	1530.8
22.5°	1502.8	1497.4	1498.8	1502.8	1492.1
25°	1473.4	1468.0	1468.0	1465.4	1469.4
27.5°	1432.0	1429.3	1426.6	1429.3	1424.0
30°	1390.6	1386.6	1385.2	1389.2	1390.6
32.5°	1347.8	1345.1	1342.5	1343.8	1346.5
35°	1299.7	1295.7	1297.1	1298.4	1298.4
37.5°	1255.7	1249.0	1247.6	1251.6	1250.3
40°	1199.5	1202.2	1192.9	1198.2	1199.5
42.5°	1147.5	1142.1	1138.1	1150.1	1146.1
45°	1088.7	1086.0	1084.7	1086.0	1084.7
47.5°	1025.9	1027.2	1023.2	1028.6	1024.6
50°	965.8	967.1	961.8	961.8	963.1
52.5°	899.0	903.0	892.3	891.0	901.7
55°	830.9	828.2	824.2	826.9	833.5
57.5°	758.7	760.1	757.4	758.7	761.4
60°	689.3	686.6	682.6	675.9	689.3
62.5°	613.1	615.8	603.8	603.8	617.1
65°	537.0	539.7	530.3	529.0	538.3
67.5°	459.5	459.5	455.5	448.8	466.2
70°	383.4	383.4	376.7	376.7	388.7
72.5°	307.2	305.9	304.6	300.6	313.9
75°	235.1	237.8	235.1	229.8	243.1
77.5°	168.3	171.0	167.0	168.3	175.0
80°	109.5	109.5	109.5	108.2	116.2
82.5°	64.1	62.8	62.8	64.1	66.8
85°	26.7	26.7	26.7	28.1	29.4
87.5°	6.7	6.7	8.0	6.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)