

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: P302627

Luminaire Tested: **FSP-24-47-50-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: P302627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)
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-CA125
Description: 2x4 Fail Safe Flat Panel Clear Acrylic 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

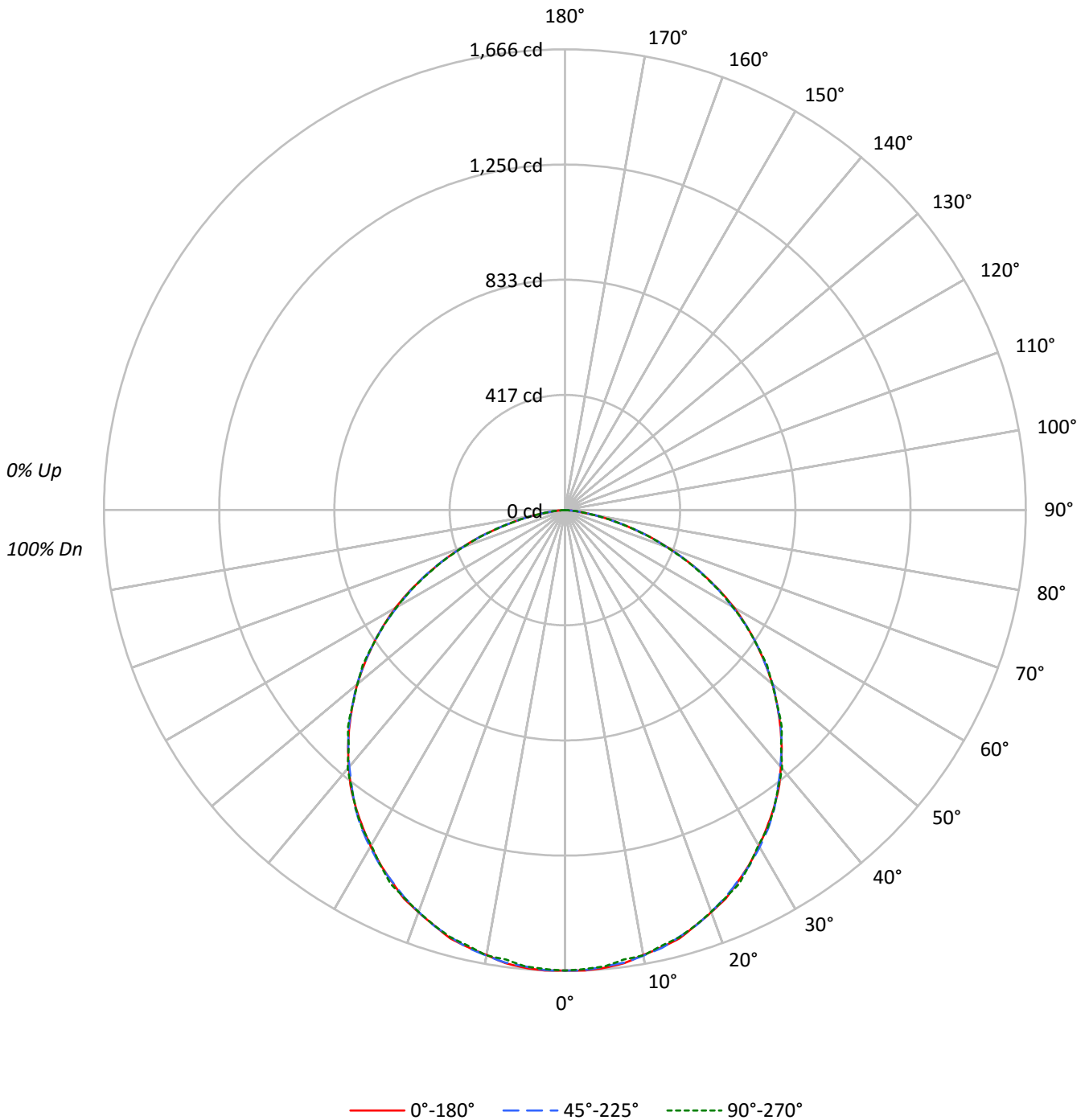
Lumens per Lamp: N/A
Luminaire Lumens: 4570.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
Input Voltage (V): NR
Input Current (A_{in}): 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	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	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	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	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	35	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°	2240	2240	2240
5°	2244	2237	2237
10°	2232	2235	2233
15°	2233	2226	2227
20°	2216	2214	2214
25°	2199	2197	2213
30°	2181	2187	2174
35°	2162	2166	2164
40°	2133	2128	2145
45°	2095	2100	2110
50°	2050	2055	2047
55°	1984	1987	1984
60°	1903	1881	1888
65°	1755	1759	1738
70°	1554	1544	1539
75°	1264	1278	1271
80°	901	901	891
85°	429	429	449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.4
10°-20°	451.0	9.9
20°-30°	683.2	14.9
30°-40°	823.0	18.0
40°-50°	849.8	18.6
50°-60°	755.9	16.5
60°-70°	543.8	11.9
70°-80°	262.5	5.7
80°-90°	43.5	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°	1291.6	28.3
0°-40°	2114.6	46.3
0°-60°	3720.2	81.4
0°-90°	4570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1661	1654	1656	1652	1656	158
15°	1603	1600	1598	1602	1599	451
25°	1481	1481	1480	1480	1491	683
35°	1316	1315	1319	1318	1318	823
45°	1101	1102	1104	1102	1109	849
55°	846	844	847	848	846	756
65°	551	552	552	554	546	546
75°	243	244	246	246	244	263
85°	28	29	28	28	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1666.4	1665.1	1665.1	1657.2	1661.2
5°	1661.2	1654.5	1655.9	1651.9	1655.9
7.5°	1651.9	1647.9	1650.6	1641.3	1638.7
10°	1633.4	1634.7	1636.0	1629.4	1634.7
12.5°	1618.9	1622.8	1621.5	1614.9	1613.6
15°	1603.0	1600.4	1597.7	1601.7	1599.0
17.5°	1573.9	1571.3	1575.3	1573.9	1573.9
20°	1547.5	1546.2	1546.2	1542.2	1546.2
22.5°	1519.8	1515.8	1515.8	1521.1	1517.1
25°	1481.4	1481.4	1480.1	1480.1	1490.7
27.5°	1444.4	1443.1	1447.1	1449.7	1445.7
30°	1403.5	1403.5	1407.4	1404.8	1399.5
32.5°	1359.8	1358.5	1366.5	1362.5	1363.8
35°	1316.2	1314.9	1318.9	1317.6	1317.6
37.5°	1270.0	1262.1	1264.7	1271.3	1266.0
40°	1214.5	1213.2	1211.8	1214.5	1221.1
42.5°	1160.3	1157.7	1159.0	1161.6	1156.3
45°	1100.8	1102.2	1103.5	1102.2	1108.8
47.5°	1040.0	1042.7	1040.0	1046.6	1040.0
50°	979.2	977.9	981.9	981.9	977.9
52.5°	913.2	914.5	913.2	918.5	921.1
55°	845.8	844.5	847.1	848.4	845.8
57.5°	777.1	777.1	775.7	781.0	775.7
60°	707.0	701.7	699.1	701.7	701.7
62.5°	630.4	626.4	626.4	626.4	626.4
65°	551.1	552.4	552.4	553.7	545.8
67.5°	474.4	471.8	474.4	470.5	471.8
70°	395.1	396.5	392.5	395.1	391.2
72.5°	321.1	321.1	321.1	318.5	318.5
75°	243.2	244.5	245.8	245.8	244.5
77.5°	177.1	175.8	177.1	177.1	177.1
80°	116.3	113.7	116.3	115.0	115.0
82.5°	64.8	66.1	66.1	67.4	67.4
85°	27.8	29.1	27.8	27.8	29.1
87.5°	7.9	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)