

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: P302515

Luminaire Tested: **FSP-14-42-50-CP187**

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: P302515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-42-50-CP187  
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .187"  
Light Source: (210) 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

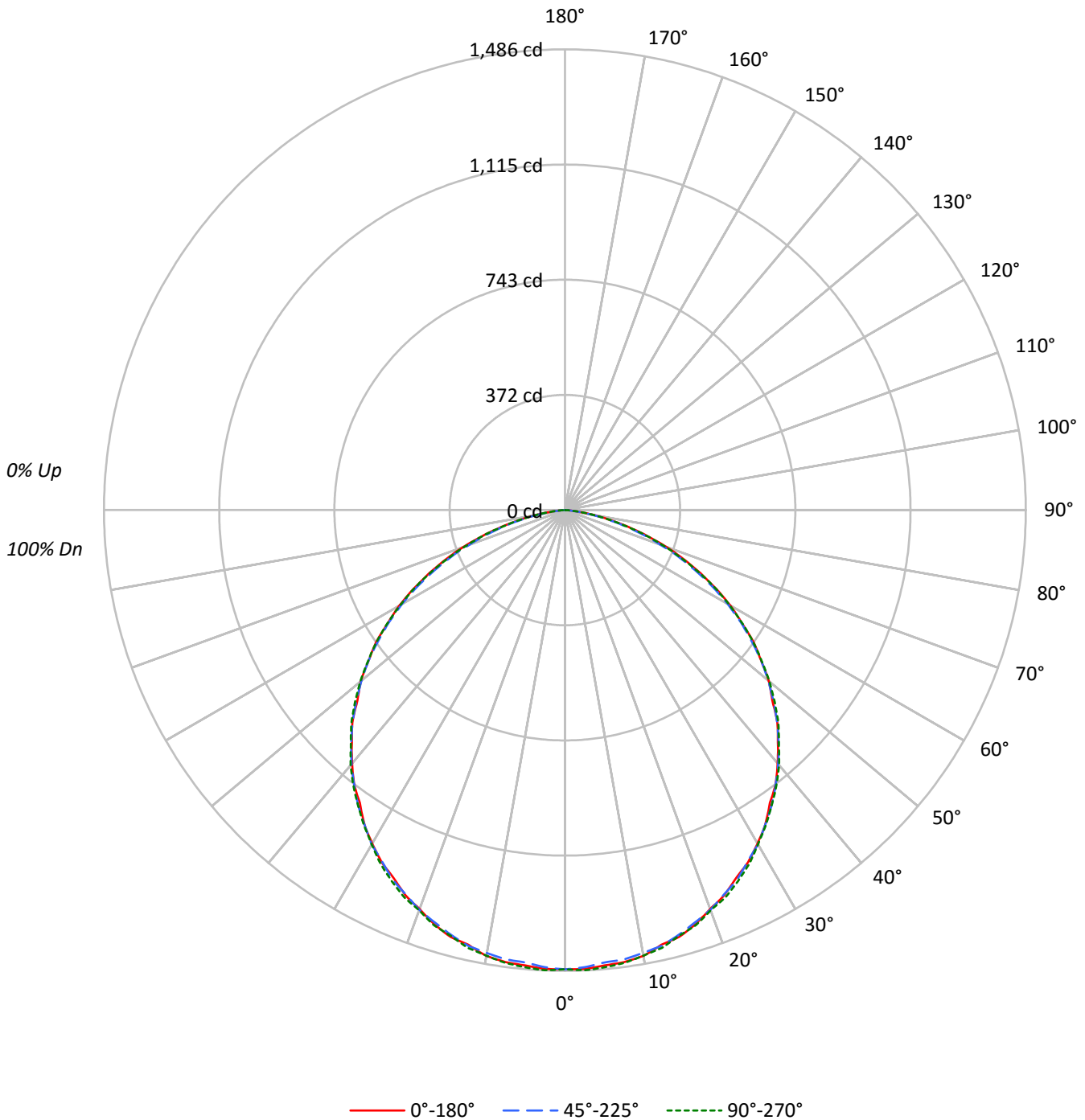
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4009.7 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	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°	3986	3986	3986
5°	3982	3956	3998
10°	3990	3963	3986
15°	3971	3951	3959
20°	3922	3930	3934
25°	3883	3904	3920
30°	3860	3868	3868
35°	3786	3819	3819
40°	3749	3759	3773
45°	3689	3683	3705
50°	3595	3584	3607
55°	3484	3445	3478
60°	3320	3260	3297
65°	3073	2975	3046
70°	2740	2597	2685
75°	2225	2094	2196
80°	1539	1430	1517
85°	735	648	692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	3.5
10°-20°	400.8	10.0
20°-30°	605.8	15.1
30°-40°	727.1	18.1
40°-50°	748.0	18.7
50°-60°	659.5	16.4
60°-70°	470.3	11.7
70°-80°	223.4	5.6
80°-90°	34.8	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°	1146.7	28.6
0°-40°	1873.7	46.7
0°-60°	3281.3	81.8
0°-90°	4009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1474	1474	1464	1476	1480	140
15°	1425	1420	1418	1422	1421	401
25°	1308	1312	1315	1318	1320	604
35°	1153	1161	1162	1168	1162	724
45°	969	974	968	974	974	744
55°	743	743	734	738	741	660
65°	483	480	467	474	478	477
75°	214	213	201	204	211	230
85°	24	22	21	21	22	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.3	1481.3	1481.3	1481.3	1481.3
2.5°	1481.3	1478.5	1475.7	1479.9	1485.5
5°	1474.3	1474.3	1464.5	1475.7	1479.9
7.5°	1470.1	1461.7	1461.7	1467.3	1472.9
10°	1460.3	1451.9	1450.5	1456.1	1458.9
12.5°	1436.5	1436.5	1439.3	1440.7	1446.3
15°	1425.3	1419.7	1418.3	1422.5	1421.1
17.5°	1400.1	1395.9	1394.5	1402.9	1404.3
20°	1369.4	1370.8	1372.2	1373.6	1373.6
22.5°	1344.2	1345.6	1341.4	1355.4	1352.6
25°	1307.8	1312.0	1314.8	1317.6	1320.4
27.5°	1279.8	1277.1	1277.1	1282.6	1286.8
30°	1242.1	1240.7	1244.9	1247.7	1244.9
32.5°	1202.9	1204.3	1202.9	1207.1	1205.7
35°	1152.6	1161.0	1162.4	1167.9	1162.4
37.5°	1116.2	1116.2	1116.2	1120.4	1120.4
40°	1067.2	1071.4	1070.0	1078.4	1074.2
42.5°	1016.9	1021.1	1019.7	1029.5	1021.1
45°	969.3	973.5	967.9	973.5	973.5
47.5°	906.4	913.4	912.0	921.8	917.6
50°	858.8	864.4	856.0	860.2	861.6
52.5°	797.3	802.9	797.3	800.1	800.1
55°	742.7	742.7	734.3	738.5	741.3
57.5°	675.6	679.8	671.4	674.2	677.0
60°	616.8	615.4	605.7	607.1	612.6
62.5°	549.7	548.3	538.5	539.9	548.3
65°	482.6	479.8	467.2	474.2	478.4
67.5°	415.4	414.0	401.4	402.8	408.4
70°	348.3	346.9	330.1	335.7	341.3
72.5°	279.7	278.3	265.8	270.0	277.0
75°	214.0	212.6	201.4	204.2	211.2
77.5°	155.3	151.1	144.1	148.3	152.5
80°	99.3	99.3	92.3	96.5	97.9
82.5°	54.6	54.6	51.8	53.2	54.6
85°	23.8	22.4	21.0	21.0	22.4
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)