

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: P302504

Luminaire Tested: **FSP-14-42-35-CP250**

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: P302504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-42-35-CP250  
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .25"  
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

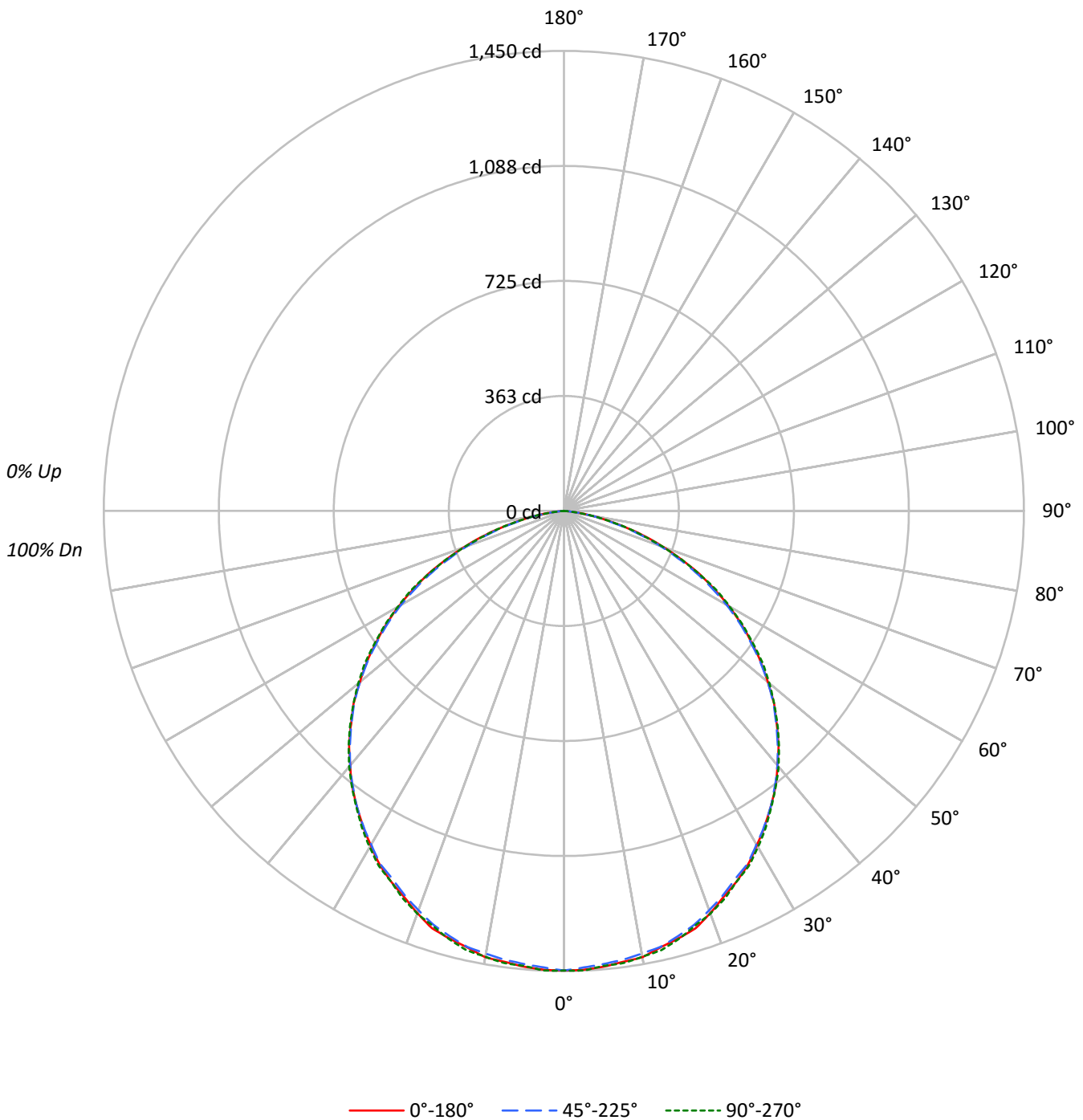
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3920.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 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	60	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	35	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°	3898	3898	3898
5°	3894	3872	3887
10°	3901	3871	3898
15°	3886	3866	3893
20°	3864	3836	3868
25°	3826	3797	3826
30°	3781	3773	3803
35°	3735	3735	3744
40°	3679	3679	3699
45°	3608	3603	3624
50°	3514	3514	3543
55°	3388	3362	3414
60°	3234	3189	3249
65°	3010	2922	3001
70°	2646	2559	2624
75°	2135	2049	2135
80°	1474	1430	1474
85°	639	639	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	3.5
10°-20°	392.5	10.0
20°-30°	592.6	15.1
30°-40°	711.6	18.1
40°-50°	731.7	18.7
50°-60°	645.5	16.5
60°-70°	459.4	11.7
70°-80°	216.9	5.5
80°-90°	33.3	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°	1122.0	28.6
0°-40°	1833.5	46.8
0°-60°	3210.8	81.9
0°-90°	3920.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1442	1440	1433	1444	1439	137
15°	1395	1389	1388	1393	1398	394
25°	1289	1280	1279	1287	1289	594
35°	1137	1132	1137	1142	1140	711
45°	948	945	947	954	952	732
55°	722	724	717	725	728	646
65°	473	466	459	466	471	465
75°	205	204	197	201	205	221
85°	21	22	21	21	21	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1448.5	1448.5	1448.5	1448.5	1448.5
2.5°	1447.1	1444.3	1440.2	1445.7	1449.8
5°	1441.6	1440.2	1433.3	1444.3	1438.8
7.5°	1433.3	1436.1	1426.4	1433.3	1437.4
10°	1427.8	1419.5	1416.8	1422.3	1426.4
12.5°	1408.5	1408.5	1407.1	1408.5	1418.1
15°	1394.7	1389.2	1387.8	1393.3	1397.5
17.5°	1379.6	1368.5	1367.2	1371.3	1371.3
20°	1349.2	1339.6	1339.6	1346.5	1350.6
22.5°	1316.2	1314.8	1310.6	1323.1	1323.1
25°	1288.6	1280.3	1278.9	1287.2	1288.6
27.5°	1256.9	1250.0	1254.1	1254.1	1262.4
30°	1216.9	1214.2	1214.2	1221.1	1223.8
32.5°	1178.3	1175.6	1177.0	1181.1	1183.9
35°	1137.0	1131.5	1137.0	1142.5	1139.8
37.5°	1095.7	1092.9	1092.9	1097.0	1097.0
40°	1047.4	1043.3	1047.4	1054.3	1052.9
42.5°	1001.9	996.4	997.8	1004.7	1003.3
45°	948.2	945.4	946.8	953.7	952.3
47.5°	898.6	894.4	895.8	895.8	898.6
50°	839.3	839.3	839.3	843.4	846.2
52.5°	782.8	781.4	780.0	786.9	791.1
55°	722.2	723.5	716.7	724.9	727.7
57.5°	662.9	662.9	657.4	661.5	668.4
60°	600.9	596.8	592.6	598.1	603.6
62.5°	534.7	532.0	525.1	529.2	544.4
65°	472.7	465.8	458.9	465.8	471.3
67.5°	403.8	398.3	390.0	396.9	403.8
70°	336.3	332.1	325.2	329.4	333.5
72.5°	271.5	264.6	259.1	264.6	267.4
75°	205.3	204.0	197.1	201.2	205.3
77.5°	147.5	144.7	140.6	147.5	147.5
80°	95.1	95.1	92.3	93.7	95.1
82.5°	53.7	51.0	49.6	52.4	51.0
85°	20.7	22.1	20.7	20.7	20.7
87.5°	4.1	2.8	4.1	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)