

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: P302571

Luminaire Tested: **FSP-22-42-35-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: P302571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-20)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-42-35-CP375  
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .375"  
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

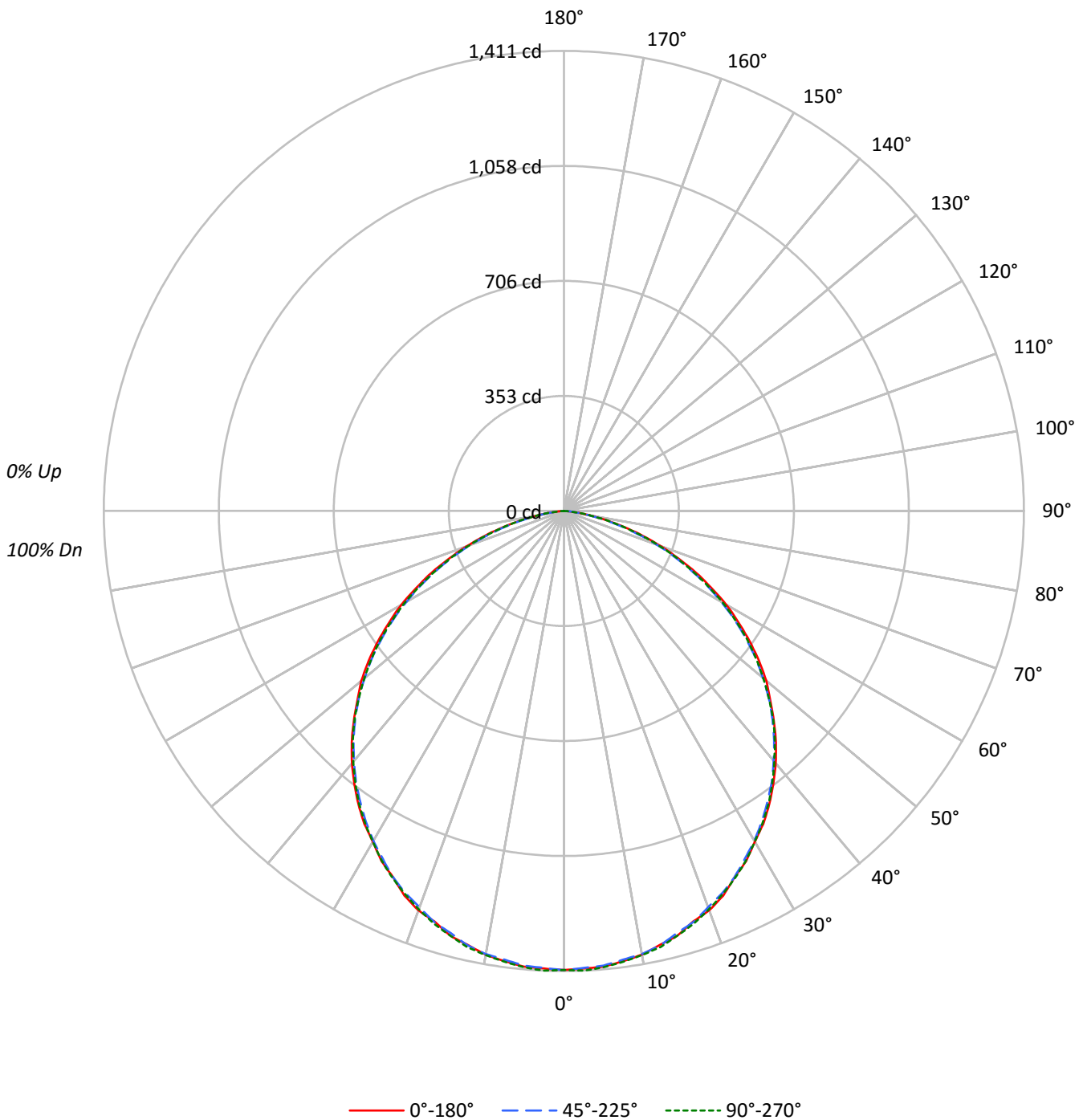
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3737.7 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3788	3788	3788
5°	3789	3780	3794
10°	3774	3770	3779
15°	3756	3733	3756
20°	3733	3704	3724
25°	3679	3679	3689
30°	3639	3629	3639
35°	3608	3576	3597
40°	3551	3516	3527
45°	3469	3444	3456
50°	3394	3338	3345
55°	3260	3198	3221
60°	3098	3000	3036
65°	2844	2739	2760
70°	2499	2395	2434
75°	2012	1892	1961
80°	1359	1282	1359
85°	614	562	614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	3.6
10°-20°	379.5	10.2
20°-30°	571.2	15.3
30°-40°	683.1	18.3
40°-50°	698.7	18.7
50°-60°	611.0	16.3
60°-70°	429.7	11.5
70°-80°	200.4	5.4
80°-90°	31.1	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°	1083.6	29.0
0°-40°	1766.7	47.3
0°-60°	3076.5	82.3
0°-90°	3737.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3737.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1403	1398	1400	1396	1404	133
15°	1348	1347	1340	1343	1348	380
25°	1239	1241	1239	1237	1242	573
35°	1098	1097	1088	1088	1095	686
45°	912	908	905	905	908	703
55°	695	688	682	678	686	621
65°	447	438	430	428	433	440
75°	194	189	182	184	189	208
85°	20	18	18	20	20	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1404.5	1407.8	1402.8	1401.2	1411.1
5°	1402.8	1397.9	1399.5	1396.2	1404.5
7.5°	1392.9	1392.9	1387.9	1389.6	1394.5
10°	1381.3	1378.0	1379.7	1379.7	1383.0
12.5°	1363.1	1366.4	1364.8	1364.8	1369.7
15°	1348.2	1346.6	1340.0	1343.3	1348.2
17.5°	1320.1	1325.1	1321.8	1321.8	1326.7
20°	1303.6	1300.3	1293.6	1296.9	1300.3
22.5°	1277.1	1273.8	1268.8	1270.5	1272.1
25°	1239.0	1240.7	1239.0	1237.4	1242.4
27.5°	1210.9	1206.0	1202.7	1202.7	1209.3
30°	1171.2	1174.5	1167.9	1167.9	1171.2
32.5°	1138.1	1136.5	1129.9	1131.5	1134.8
35°	1098.4	1096.8	1088.5	1088.5	1095.1
37.5°	1055.4	1052.1	1047.2	1043.8	1050.5
40°	1010.8	1010.8	1000.8	997.5	1004.1
42.5°	962.8	956.2	954.5	956.2	957.8
45°	911.5	908.2	904.9	904.9	908.2
47.5°	858.6	856.9	853.6	850.3	853.6
50°	810.6	800.7	797.4	797.4	799.0
52.5°	754.3	744.4	741.1	737.8	742.8
55°	694.8	688.2	681.6	678.2	686.5
57.5°	635.2	627.0	620.4	622.0	623.7
60°	575.7	564.1	557.5	555.8	564.1
62.5°	509.5	502.9	494.6	494.6	497.9
65°	446.7	438.4	430.1	428.5	433.4
67.5°	378.8	375.5	367.2	363.9	373.9
70°	317.6	307.7	304.4	301.1	309.3
72.5°	254.8	244.8	241.5	243.2	249.8
75°	193.5	188.6	182.0	183.6	188.6
77.5°	137.3	134.0	129.0	132.3	137.3
80°	87.7	86.0	82.7	84.4	87.7
82.5°	51.3	49.6	46.3	48.0	48.0
85°	19.9	18.2	18.2	19.9	19.9
87.5°	5.0	5.0	5.0	3.3	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)