

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: P302565

Luminaire Tested: **FSP-22-32-50-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: P302565
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-22-32-50-CP375
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (168) 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

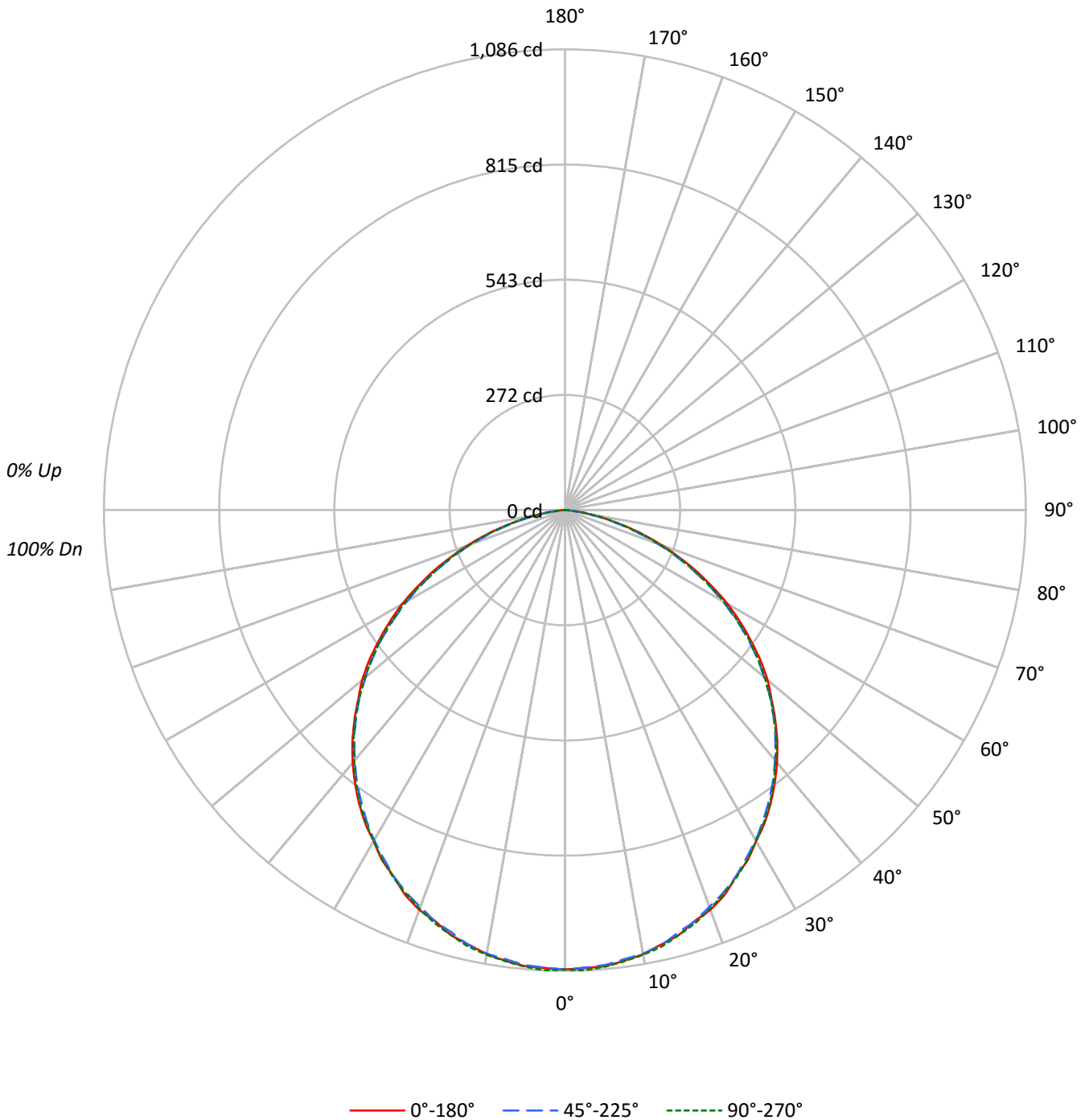
Lumens per Lamp: N/A
Luminaire Lumens: 2875.4 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	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°	2914	2914	2914
5°	2915	2908	2919
10°	2904	2900	2907
15°	2890	2872	2890
20°	2872	2850	2865
25°	2830	2830	2838
30°	2800	2792	2800
35°	2776	2751	2768
40°	2732	2705	2714
45°	2668	2649	2659
50°	2611	2568	2573
55°	2508	2460	2478
60°	2384	2308	2336
65°	2188	2107	2123
70°	1922	1843	1873
75°	1548	1456	1509
80°	1046	986	1046
85°	472	432	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	3.6
10°-20°	292.0	10.2
20°-30°	439.4	15.3
30°-40°	525.5	18.3
40°-50°	537.5	18.7
50°-60°	470.0	16.3
60°-70°	330.6	11.5
70°-80°	154.2	5.4
80°-90°	23.9	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°	833.6	29.0
0°-40°	1359.1	47.3
0°-60°	2366.7	82.3
0°-90°	2875.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1079	1075	1077	1074	1080	102
15°	1037	1036	1031	1033	1037	292
25°	953	954	953	952	956	441
35°	845	844	837	837	842	528
45°	701	699	696	696	699	541
55°	534	529	524	522	528	478
65°	344	337	331	330	333	339
75°	149	145	140	141	145	160
85°	15	14	14	15	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1080.5	1083.0	1079.2	1077.9	1085.6
5°	1079.2	1075.4	1076.7	1074.1	1080.5
7.5°	1071.6	1071.6	1067.8	1069.0	1072.8
10°	1062.7	1060.1	1061.4	1061.4	1063.9
12.5°	1048.7	1051.2	1049.9	1049.9	1053.8
15°	1037.2	1035.9	1030.8	1033.4	1037.2
17.5°	1015.6	1019.4	1016.8	1016.8	1020.7
20°	1002.8	1000.3	995.2	997.8	1000.3
22.5°	982.5	979.9	976.1	977.4	978.7
25°	953.2	954.5	953.2	951.9	955.8
27.5°	931.6	927.8	925.2	925.2	930.3
30°	901.0	903.6	898.5	898.5	901.0
32.5°	875.6	874.3	869.2	870.5	873.0
35°	845.0	843.8	837.4	837.4	842.5
37.5°	811.9	809.4	805.6	803.0	808.1
40°	777.6	777.6	770.0	767.4	772.5
42.5°	740.7	735.6	734.3	735.6	736.9
45°	701.2	698.7	696.1	696.1	698.7
47.5°	660.5	659.2	656.7	654.1	656.7
50°	623.6	616.0	613.4	613.4	614.7
52.5°	580.3	572.7	570.1	567.6	571.4
55°	534.5	529.4	524.3	521.8	528.1
57.5°	488.7	482.3	477.2	478.5	479.8
60°	442.9	434.0	428.9	427.6	434.0
62.5°	392.0	386.9	380.5	380.5	383.1
65°	343.6	337.3	330.9	329.6	333.4
67.5°	291.4	288.9	282.5	280.0	287.6
70°	244.3	236.7	234.2	231.6	238.0
72.5°	196.0	188.4	185.8	187.1	192.2
75°	148.9	145.1	140.0	141.3	145.1
77.5°	105.6	103.1	99.3	101.8	105.6
80°	67.5	66.2	63.6	64.9	67.5
82.5°	39.5	38.2	35.6	36.9	36.9
85°	15.3	14.0	14.0	15.3	15.3
87.5°	3.8	3.8	3.8	2.5	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)