

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: P302580

Luminaire Tested: **FSP-22-42-50-CP125**

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: P302580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-22-42-50-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
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

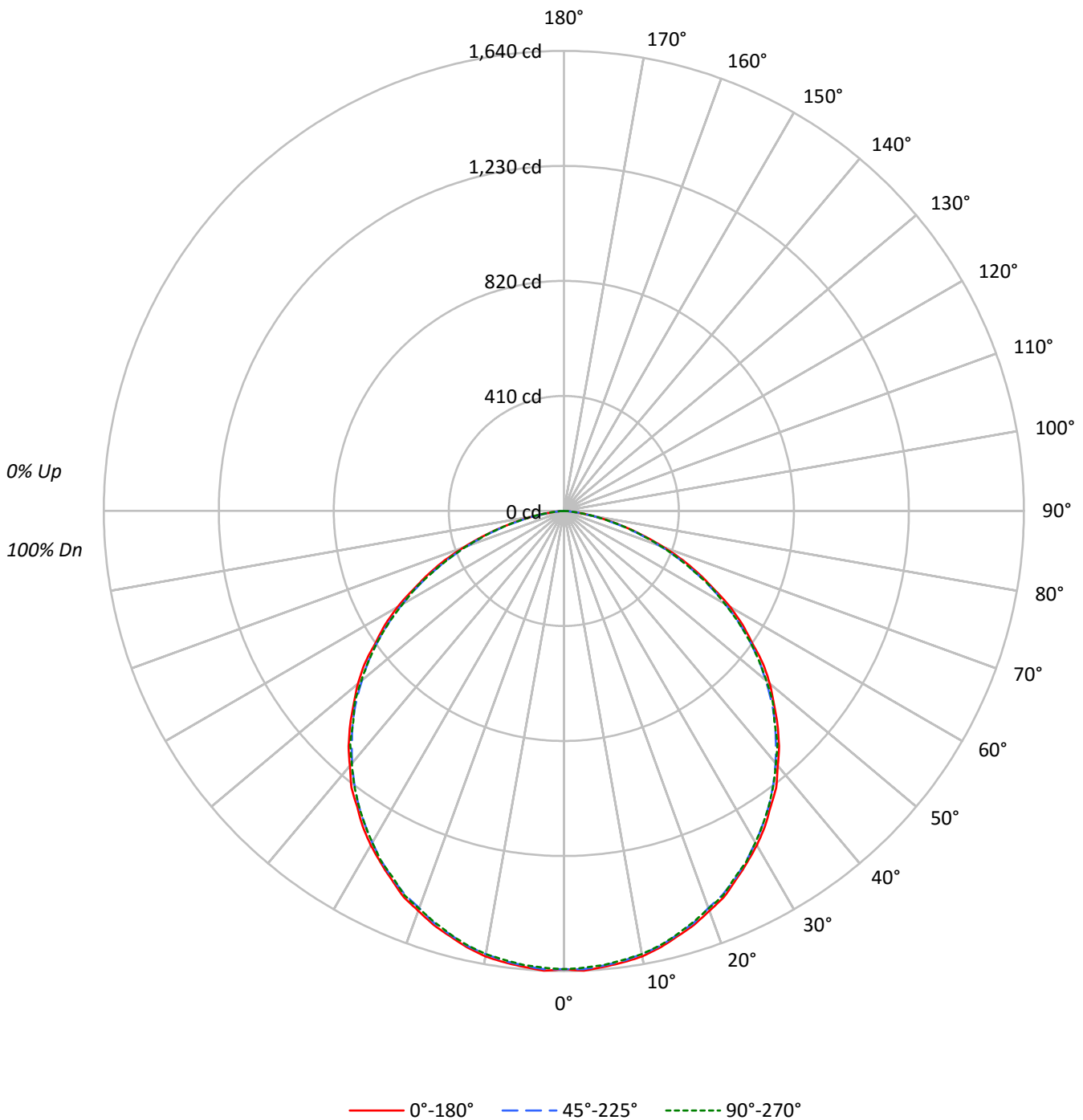
Lumens per Lamp: N/A
Luminaire Lumens: 4402.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
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	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	67	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	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4395	4395	4395
5°	4407	4393	4388
10°	4406	4382	4382
15°	4371	4356	4352
20°	4344	4314	4319
25°	4307	4292	4282
30°	4275	4243	4243
35°	4223	4194	4194
40°	4167	4124	4130
45°	4098	4051	4038
50°	4012	3932	3947
55°	3844	3795	3795
60°	3688	3585	3567
65°	3389	3289	3279
70°	2984	2874	2902
75°	2441	2333	2405
80°	1698	1618	1698
85°	806	753	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.5
10°-20°	441.4	10.0
20°-30°	666.6	15.1
30°-40°	799.3	18.2
40°-50°	821.8	18.7
50°-60°	724.4	16.5
60°-70°	512.9	11.6
70°-80°	242.7	5.5
80°-90°	39.2	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
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0°-30°	1262.6	28.7
0°-40°	2061.9	46.8
0°-60°	3608.1	81.9
0°-90°	4402.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1632	1630	1626	1625	1625	155
15°	1569	1562	1564	1562	1562	443
25°	1451	1446	1446	1444	1442	669
35°	1285	1280	1277	1275	1277	806
45°	1077	1066	1064	1061	1061	830
55°	819	812	809	812	809	736
65°	532	515	517	518	515	526
75°	235	221	224	224	231	251
85°	26	24	24	26	26	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.3	1633.3	1633.3	1633.3	1633.3
2.5°	1640.3	1631.6	1635.1	1631.6	1629.8
5°	1631.6	1629.8	1626.4	1624.6	1624.6
7.5°	1622.9	1617.7	1617.7	1614.2	1614.2
10°	1612.4	1603.7	1603.7	1603.7	1603.7
12.5°	1593.3	1584.6	1588.1	1582.9	1586.3
15°	1569.0	1562.0	1563.7	1562.0	1562.0
17.5°	1546.3	1539.4	1539.4	1537.6	1535.9
20°	1516.8	1516.8	1506.3	1511.6	1508.1
22.5°	1490.7	1488.9	1480.2	1476.8	1483.7
25°	1450.7	1445.5	1445.5	1443.7	1442.0
27.5°	1414.1	1412.4	1407.2	1408.9	1408.9
30°	1375.9	1368.9	1365.4	1362.0	1365.4
32.5°	1334.1	1322.0	1322.0	1322.0	1322.0
35°	1285.4	1280.2	1276.7	1275.0	1276.7
37.5°	1243.7	1235.0	1226.3	1224.6	1228.0
40°	1186.3	1179.3	1174.1	1175.8	1175.8
42.5°	1135.8	1125.4	1118.4	1123.7	1127.1
45°	1076.7	1066.3	1064.5	1061.0	1061.0
47.5°	1015.8	1008.9	1003.6	1001.9	1010.6
50°	958.4	944.5	939.3	939.3	942.8
52.5°	895.8	881.9	876.7	878.4	876.7
55°	819.3	812.3	808.8	812.3	808.8
57.5°	754.9	742.7	739.3	739.3	737.5
60°	685.3	667.9	666.2	664.5	662.7
62.5°	603.6	593.1	591.4	591.4	594.9
65°	532.3	514.9	516.6	518.3	514.9
67.5°	459.2	441.8	441.8	443.6	441.8
70°	379.2	363.5	365.3	368.8	368.8
72.5°	306.1	294.0	295.7	295.7	297.4
75°	234.8	220.9	224.4	224.4	231.3
77.5°	168.7	158.3	160.0	163.5	165.2
80°	109.6	102.6	104.4	106.1	109.6
82.5°	60.9	59.1	59.1	60.9	60.9
85°	26.1	24.4	24.4	26.1	26.1
87.5°	7.0	7.0	5.2	5.2	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)