

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: P302514

Luminaire Tested: **FSP-14-42-50-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: P302514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-4)
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-CP125
Description: 1x4 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

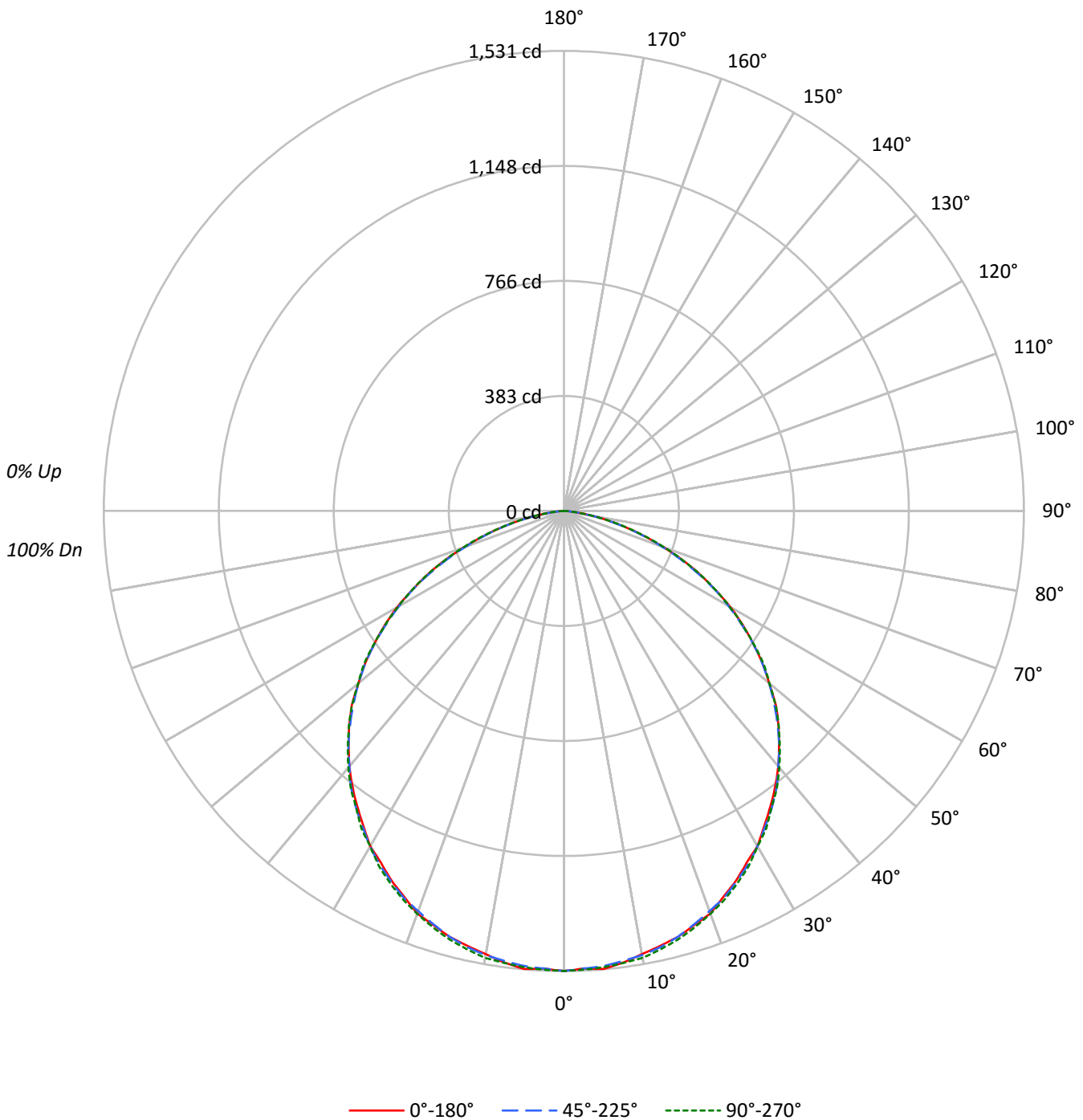
Lumens per Lamp: N/A
Luminaire Lumens: 4160.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (A_{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	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	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°	4120	4120	4120
5°	4132	4105	4117
10°	4092	4100	4126
15°	4087	4087	4110
20°	4082	4058	4086
25°	4030	4038	4059
30°	4002	4006	4006
35°	3938	3961	3957
40°	3899	3899	3919
45°	3844	3828	3849
50°	3734	3734	3740
55°	3611	3604	3617
60°	3447	3409	3425
65°	3184	3140	3184
70°	2788	2755	2820
75°	2282	2253	2311
80°	1615	1571	1615
85°	772	729	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.5
10°-20°	414.5	10.0
20°-30°	627.3	15.1
30°-40°	753.4	18.1
40°-50°	776.1	18.7
50°-60°	685.4	16.5
60°-70°	488.6	11.7
70°-80°	233.0	5.6
80°-90°	37.2	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
0°-30°	1186.5	28.5
0°-40°	1939.9	46.6
0°-60°	3401.5	81.8
0°-90°	4160.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1530	1524	1520	1524	1524	145
15°	1467	1467	1467	1468	1475	414
25°	1357	1354	1360	1367	1367	625
35°	1199	1203	1206	1209	1204	751
45°	1010	1006	1006	1010	1011	778
55°	770	770	768	764	771	688
65°	500	496	493	488	500	493
75°	220	218	217	214	222	235
85°	25	24	24	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1524.0	1525.4	1524.0	1529.6	1528.2
5°	1529.6	1524.0	1519.8	1524.0	1524.0
7.5°	1515.7	1511.5	1510.1	1518.4	1517.1
10°	1497.6	1507.3	1500.4	1505.9	1510.1
12.5°	1482.3	1489.3	1486.5	1500.4	1493.4
15°	1467.0	1467.0	1467.0	1468.4	1475.4
17.5°	1444.8	1443.4	1442.0	1447.6	1451.8
20°	1425.4	1414.2	1417.0	1425.4	1426.7
22.5°	1389.2	1394.8	1393.4	1399.0	1399.0
25°	1357.3	1354.5	1360.1	1367.0	1367.0
27.5°	1318.4	1322.6	1326.7	1329.5	1332.3
30°	1287.8	1282.3	1289.2	1290.6	1289.2
32.5°	1242.0	1240.6	1246.1	1253.1	1253.1
35°	1198.9	1203.1	1205.9	1208.6	1204.5
37.5°	1155.8	1154.5	1162.8	1161.4	1164.2
40°	1110.0	1108.6	1110.0	1112.8	1115.6
42.5°	1060.0	1055.8	1061.4	1062.8	1064.2
45°	1010.0	1005.8	1005.8	1010.0	1011.4
47.5°	957.2	948.9	948.9	950.2	955.8
50°	891.9	890.5	891.9	889.1	893.3
52.5°	833.5	832.2	832.2	829.4	839.1
55°	769.6	769.6	768.2	764.1	771.0
57.5°	705.7	704.3	700.2	700.2	704.3
60°	640.4	636.3	633.5	629.3	636.3
62.5°	568.2	568.2	566.8	558.5	569.6
65°	500.1	496.0	493.2	487.6	500.1
67.5°	429.3	425.1	419.6	418.2	429.3
70°	354.3	355.6	350.1	345.9	358.4
72.5°	283.4	289.0	280.6	279.2	289.0
75°	219.5	218.1	216.7	213.9	222.3
77.5°	158.4	157.0	155.6	152.8	161.2
80°	104.2	104.2	101.4	100.0	104.2
82.5°	58.3	57.0	55.6	57.0	59.7
85°	25.0	23.6	23.6	23.6	23.6
87.5°	5.6	5.6	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)