

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: P302513

Luminaire Tested: **FSP-14-42-50-CA125**

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: P302513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-3)
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-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic 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

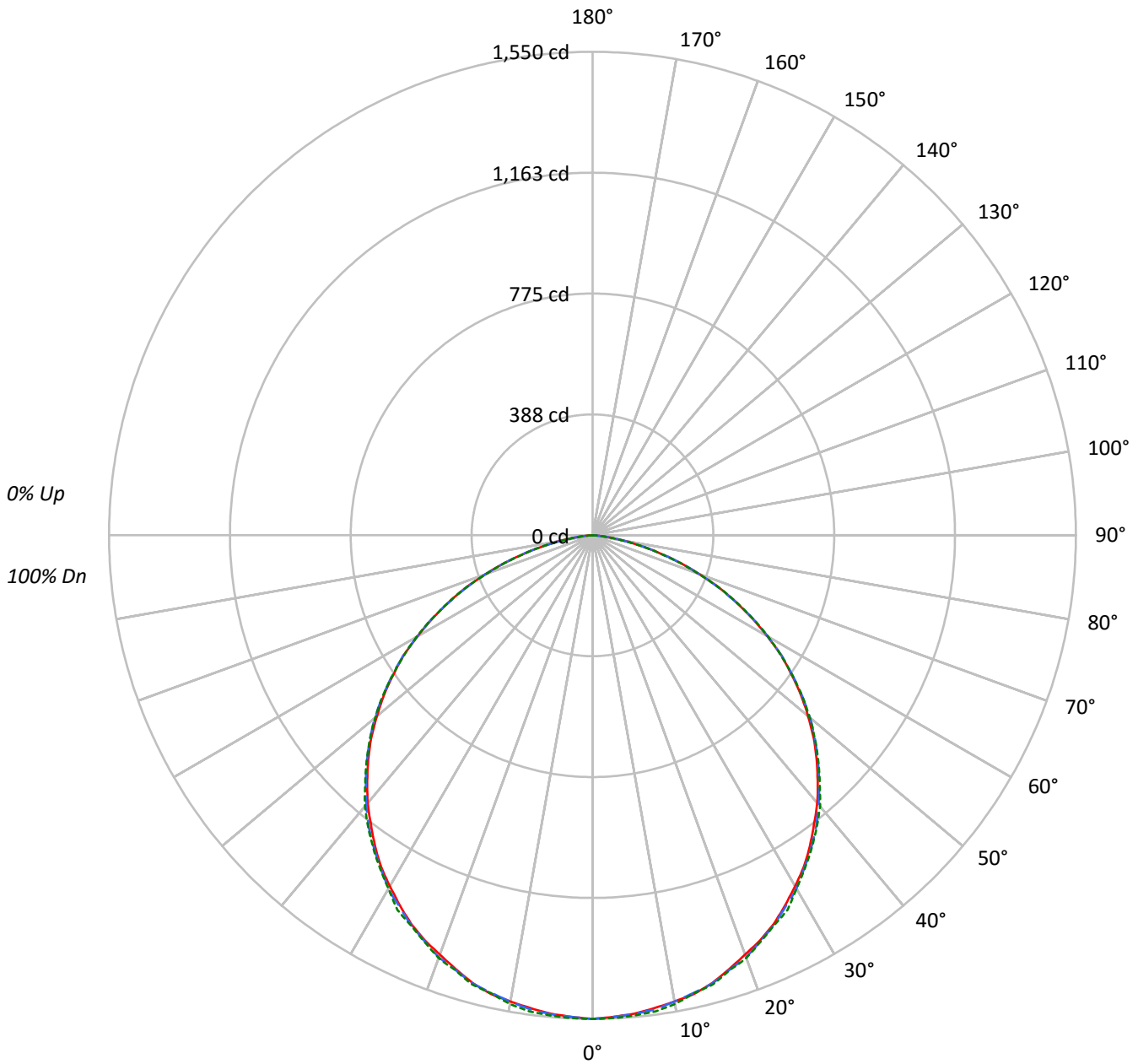
Lumens per Lamp: N/A
Luminaire Lumens: 4237.5 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



— 0°-180° - - - 45°-225° - · - · 90°-270°



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	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	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4172	4172	4172
5°	4159	4162	4173
10°	4146	4146	4169
15°	4138	4142	4154
20°	4095	4123	4131
25°	4082	4090	4094
30°	4035	4065	4065
35°	3993	4016	4025
40°	3939	3964	3988
45°	3867	3894	3899
50°	3779	3813	3808
55°	3657	3676	3670
60°	3487	3495	3502
65°	3244	3235	3252
70°	2865	2876	2876
75°	2347	2360	2332
80°	1674	1630	1630
85°	769	769	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.5
10°-20°	419.4	9.9
20°-30°	634.8	15.0
30°-40°	764.4	18.0
40°-50°	788.4	18.6
50°-60°	699.9	16.5
60°-70°	503.3	11.9
70°-80°	242.2	5.7
80°-90°	38.5	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°	1200.7	28.3
0°-40°	1965.1	46.4
0°-60°	3453.4	81.5
0°-90°	4237.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4237.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1540	1544	1541	1540	1545	146
15°	1486	1490	1487	1484	1491	418
25°	1375	1379	1378	1379	1379	633
35°	1216	1218	1222	1225	1225	760
45°	1016	1023	1023	1024	1024	784
55°	779	788	784	790	782	697
65°	510	510	508	510	511	503
75°	226	228	227	224	224	242
85°	25	25	25	24	24	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1545.0	1550.5	1545.0	1543.6	1549.1
5°	1539.5	1543.6	1540.8	1539.5	1545.0
7.5°	1528.4	1535.3	1532.5	1531.1	1539.5
10°	1517.3	1522.8	1517.3	1521.5	1525.6
12.5°	1506.2	1510.4	1502.1	1507.6	1503.5
15°	1485.5	1489.6	1486.8	1484.1	1491.0
17.5°	1457.8	1464.7	1460.5	1464.7	1461.9
20°	1430.1	1435.6	1439.8	1437.0	1442.5
22.5°	1405.2	1407.9	1407.9	1410.7	1409.3
25°	1374.7	1378.9	1377.5	1378.9	1378.9
27.5°	1337.3	1340.1	1341.5	1344.3	1353.9
30°	1298.6	1304.1	1308.3	1309.6	1308.3
32.5°	1261.2	1264.0	1264.0	1269.5	1266.7
35°	1215.5	1218.3	1222.4	1225.2	1225.2
37.5°	1167.1	1171.2	1178.1	1180.9	1180.9
40°	1121.4	1125.5	1128.3	1138.0	1135.2
42.5°	1068.8	1077.1	1075.7	1077.1	1078.4
45°	1016.2	1023.1	1023.1	1024.5	1024.5
47.5°	962.2	967.7	967.7	967.7	967.7
50°	902.6	905.4	910.9	906.8	909.6
52.5°	843.1	848.6	848.6	845.9	848.6
55°	779.4	787.7	783.6	790.5	782.2
57.5°	718.5	719.9	719.9	718.5	717.1
60°	647.9	653.4	649.3	646.5	650.7
62.5°	578.7	581.4	581.4	580.1	581.4
65°	509.5	509.5	508.1	509.5	510.8
67.5°	440.2	440.2	436.1	433.3	441.6
70°	364.1	368.3	365.5	365.5	365.5
72.5°	296.3	293.5	294.9	292.1	293.5
75°	225.7	228.4	227.0	224.3	224.3
77.5°	162.0	166.1	163.4	162.0	163.4
80°	108.0	106.6	105.2	105.2	105.2
82.5°	62.3	59.5	59.5	58.1	58.1
85°	24.9	24.9	24.9	23.5	23.5
87.5°	5.5	5.5	5.5	4.2	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)