

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: P302507

Luminaire Tested: **FSP-14-42-40-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: P302507
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-14-42-40-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (210) 4000 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

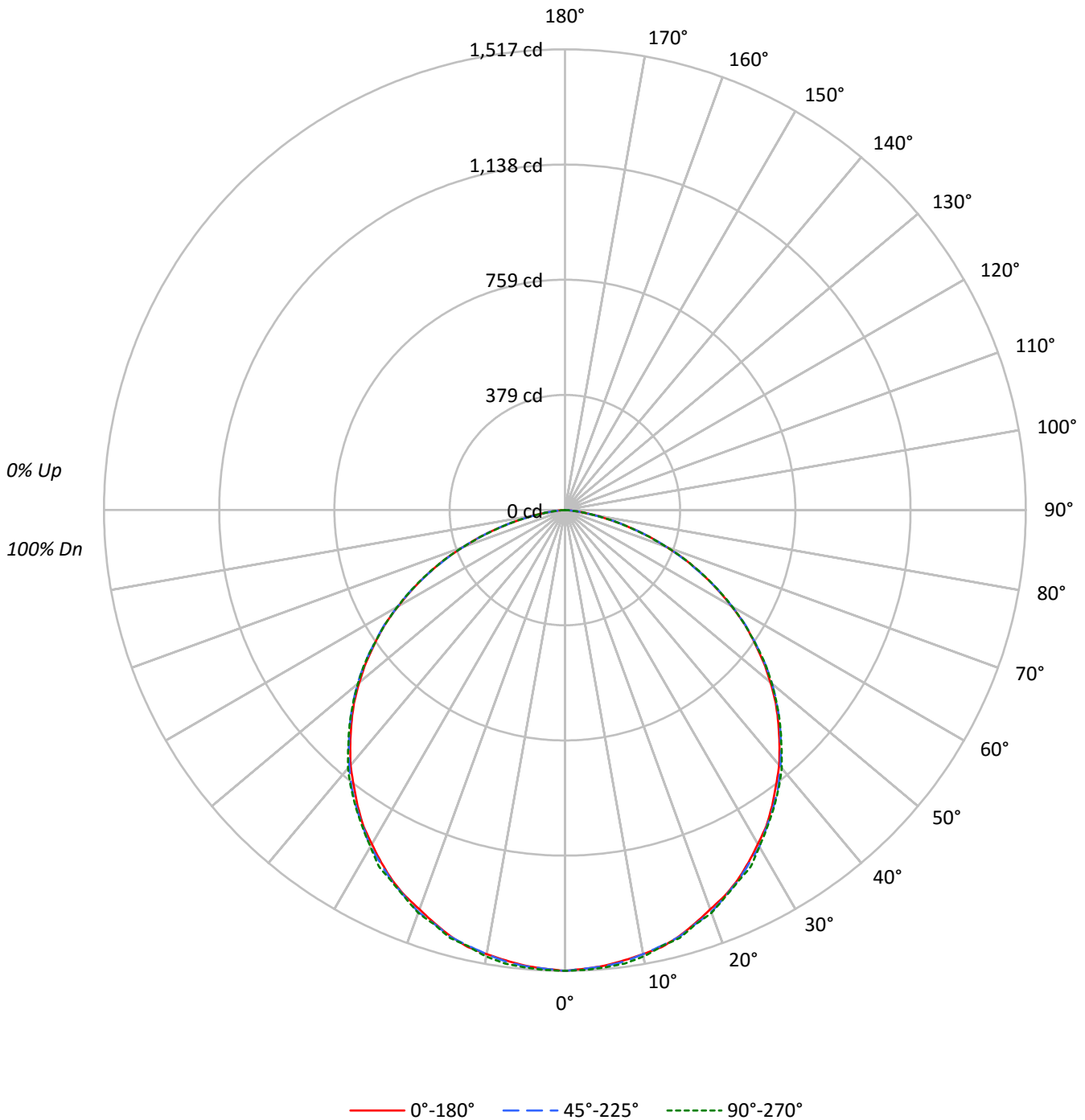
Lumens per Lamp: N/A
Luminaire Lumens: 4145.3 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4082	4082	4082
5°	4068	4072	4083
10°	4056	4056	4078
15°	4048	4052	4064
20°	4006	4033	4041
25°	3993	4001	4005
30°	3947	3977	3977
35°	3906	3928	3937
40°	3854	3877	3901
45°	3783	3809	3814
50°	3697	3731	3725
55°	3577	3596	3590
60°	3411	3419	3426
65°	3174	3165	3182
70°	2803	2813	2813
75°	2295	2309	2281
80°	1636	1595	1595
85°	753	753	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.5
10°-20°	410.2	9.9
20°-30°	621.0	15.0
30°-40°	747.8	18.0
40°-50°	771.3	18.6
50°-60°	684.7	16.5
60°-70°	492.4	11.9
70°-80°	236.9	5.7
80°-90°	37.7	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°	1174.5	28.3
0°-40°	1922.3	46.4
0°-60°	3378.3	81.5
0°-90°	4145.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1506	1510	1507	1506	1511	143
15°	1453	1457	1454	1452	1459	409
25°	1345	1349	1348	1349	1349	619
35°	1189	1192	1196	1198	1198	744
45°	994	1001	1001	1002	1002	767
55°	762	771	766	773	765	682
65°	498	498	497	498	500	492
75°	221	224	222	219	219	237
85°	24	24	24	23	23	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1511.4	1516.8	1511.4	1510.0	1515.4
5°	1506.0	1510.0	1507.3	1506.0	1511.4
7.5°	1495.1	1501.9	1499.2	1497.8	1506.0
10°	1484.3	1489.7	1484.3	1488.4	1492.4
12.5°	1473.5	1477.5	1469.4	1474.8	1470.7
15°	1453.1	1457.2	1454.5	1451.8	1458.6
17.5°	1426.1	1432.8	1428.8	1432.8	1430.1
20°	1399.0	1404.4	1408.4	1405.7	1411.2
22.5°	1374.6	1377.3	1377.3	1380.0	1378.7
25°	1344.8	1348.9	1347.5	1348.9	1348.9
27.5°	1308.2	1310.9	1312.3	1315.0	1324.5
30°	1270.3	1275.7	1279.8	1281.1	1279.8
32.5°	1233.7	1236.5	1236.5	1241.9	1239.2
35°	1189.1	1191.8	1195.8	1198.5	1198.5
37.5°	1141.7	1145.7	1152.5	1155.2	1155.2
40°	1097.0	1101.0	1103.7	1113.2	1110.5
42.5°	1045.5	1053.6	1052.3	1053.6	1055.0
45°	994.0	1000.8	1000.8	1002.2	1002.2
47.5°	941.2	946.6	946.6	946.6	946.6
50°	883.0	885.7	891.1	887.1	889.8
52.5°	824.8	830.2	830.2	827.5	830.2
55°	762.5	770.6	766.5	773.3	765.2
57.5°	702.9	704.2	704.2	702.9	701.5
60°	633.8	639.2	635.2	632.4	636.5
62.5°	566.1	568.8	568.8	567.4	568.8
65°	498.4	498.4	497.0	498.4	499.7
67.5°	430.7	430.7	426.6	423.9	432.0
70°	356.2	360.2	357.5	357.5	357.5
72.5°	289.8	287.1	288.5	285.8	287.1
75°	220.7	223.5	222.1	219.4	219.4
77.5°	158.5	162.5	159.8	158.5	159.8
80°	105.6	104.3	102.9	102.9	102.9
82.5°	60.9	58.2	58.2	56.9	56.9
85°	24.4	24.4	24.4	23.0	23.0
87.5°	5.4	5.4	5.4	4.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)