

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: P302568

Luminaire Tested: **FSP-22-42-35-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: P302568
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-22-42-35-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (238) 3500 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

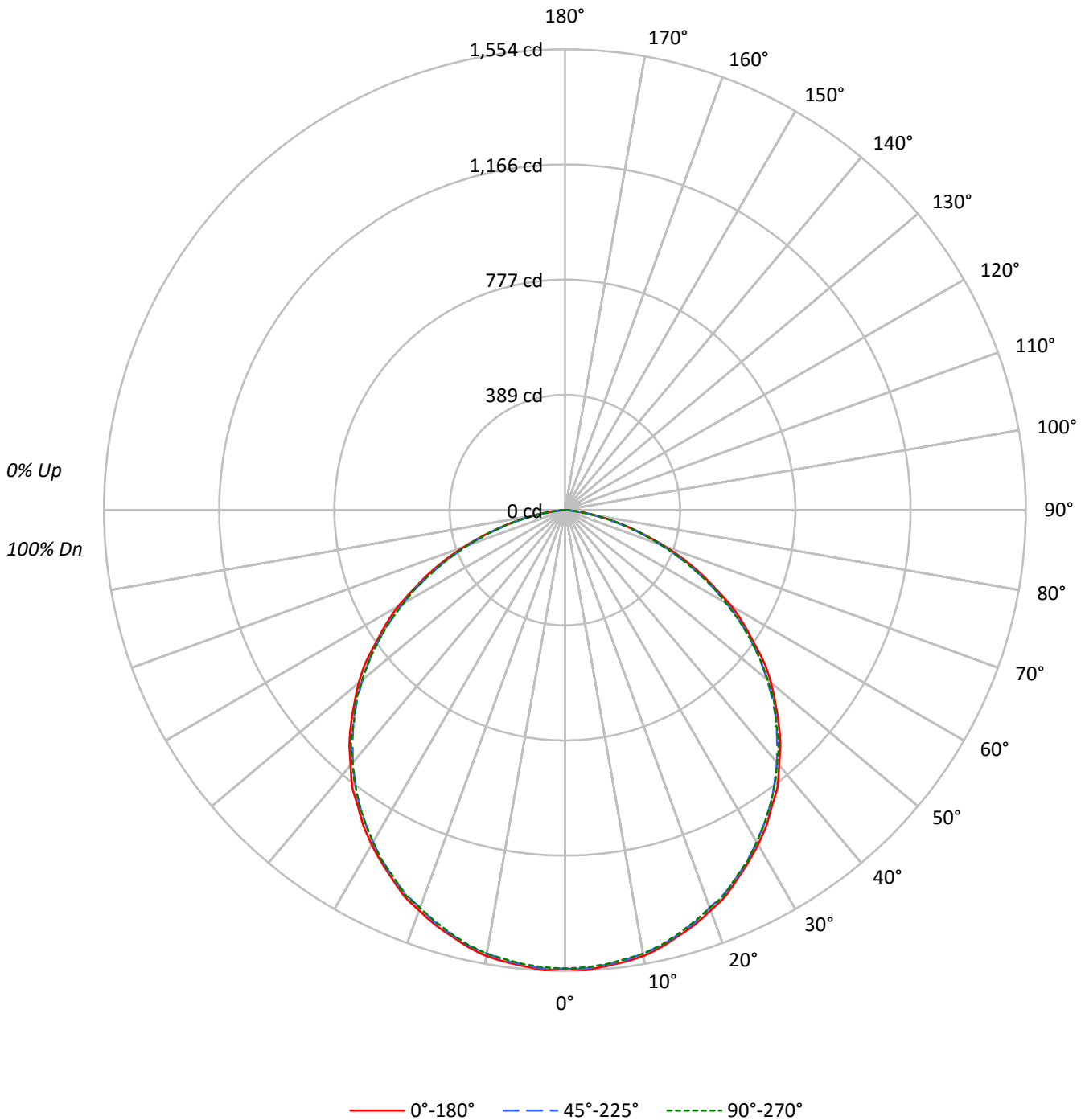
Lumens per Lamp: N/A
Luminaire Lumens: 4169.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	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°	4163	4163	4163
5°	4174	4161	4156
10°	4173	4150	4150
15°	4140	4126	4121
20°	4114	4085	4090
25°	4079	4064	4055
30°	4049	4018	4018
35°	3999	3972	3972
40°	3947	3906	3912
45°	3881	3837	3824
50°	3800	3724	3738
55°	3640	3594	3594
60°	3493	3395	3378
65°	3210	3116	3105
70°	2825	2722	2747
75°	2312	2209	2278
80°	1609	1531	1609
85°	763	713	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.5
10°-20°	418.0	10.0
20°-30°	631.3	15.1
30°-40°	757.0	18.2
40°-50°	778.3	18.7
50°-60°	686.1	16.5
60°-70°	485.8	11.6
70°-80°	229.8	5.5
80°-90°	37.1	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°	1195.8	28.7
0°-40°	1952.8	46.8
0°-60°	3417.1	81.9
0°-90°	4169.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4169.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1545	1544	1540	1539	1539	147
15°	1486	1479	1481	1479	1479	420
25°	1374	1369	1369	1367	1366	634
35°	1217	1212	1209	1208	1209	763
45°	1020	1010	1008	1005	1005	786
55°	776	769	766	769	766	697
65°	504	488	489	491	488	498
75°	222	209	212	212	219	238
85°	25	23	23	25	25	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.9	1546.9	1546.9	1546.9	1546.9
2.5°	1553.5	1545.2	1548.5	1545.2	1543.6
5°	1545.2	1543.6	1540.3	1538.6	1538.6
7.5°	1537.0	1532.0	1532.0	1528.7	1528.7
10°	1527.1	1518.9	1518.9	1518.9	1518.9
12.5°	1509.0	1500.7	1504.0	1499.1	1502.4
15°	1485.9	1479.3	1481.0	1479.3	1479.3
17.5°	1464.5	1457.9	1457.9	1456.3	1454.6
20°	1436.5	1436.5	1426.6	1431.5	1428.3
22.5°	1411.8	1410.1	1401.9	1398.6	1405.2
25°	1373.9	1368.9	1368.9	1367.3	1365.7
27.5°	1339.3	1337.6	1332.7	1334.4	1334.4
30°	1303.1	1296.5	1293.2	1289.9	1293.2
32.5°	1263.5	1252.0	1252.0	1252.0	1252.0
35°	1217.4	1212.4	1209.2	1207.5	1209.2
37.5°	1177.9	1169.6	1161.4	1159.7	1163.0
40°	1123.5	1116.9	1112.0	1113.6	1113.6
42.5°	1075.7	1065.8	1059.2	1064.2	1067.5
45°	1019.7	1009.8	1008.2	1004.9	1004.9
47.5°	962.1	955.5	950.5	948.9	957.1
50°	907.7	894.5	889.6	889.6	892.9
52.5°	848.4	835.2	830.3	831.9	830.3
55°	775.9	769.3	766.0	769.3	766.0
57.5°	714.9	703.4	700.1	700.1	698.5
60°	649.1	632.6	630.9	629.3	627.6
62.5°	571.6	561.7	560.1	560.1	563.4
65°	504.1	487.6	489.3	490.9	487.6
67.5°	434.9	418.4	418.4	420.1	418.4
70°	359.1	344.3	345.9	349.2	349.2
72.5°	289.9	278.4	280.0	280.0	281.7
75°	222.4	209.2	212.5	212.5	219.1
77.5°	159.8	149.9	151.6	154.9	156.5
80°	103.8	97.2	98.8	100.5	103.8
82.5°	57.7	56.0	56.0	57.7	57.7
85°	24.7	23.1	23.1	24.7	24.7
87.5°	6.6	6.6	4.9	4.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)