

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: P302517

Luminaire Tested: **FSP-14-42-50-CP375**

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: P302517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-19)
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-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
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

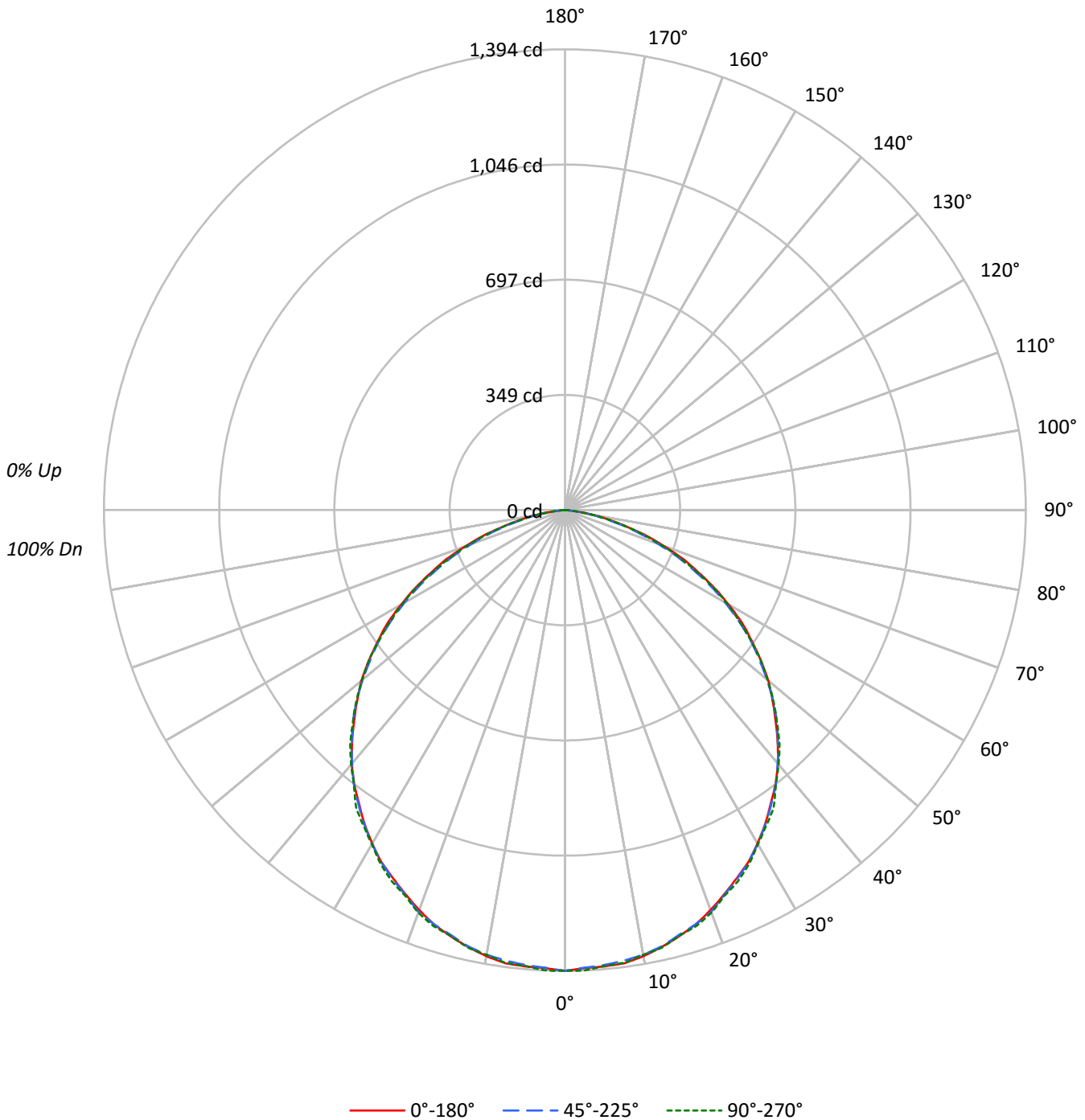
Lumens per Lamp: N/A
Luminaire Lumens: 3729.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3751	3751	3751
5°	3743	3732	3739
10°	3744	3733	3733
15°	3720	3708	3716
20°	3688	3704	3712
25°	3650	3658	3679
30°	3620	3624	3628
35°	3565	3574	3616
40°	3523	3518	3533
45°	3428	3450	3450
50°	3363	3339	3351
55°	3237	3211	3217
60°	3075	3014	3052
65°	2828	2730	2793
70°	2506	2363	2473
75°	2019	1903	2005
80°	1429	1299	1385
85°	605	562	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.5
10°-20°	377.1	10.1
20°-30°	568.7	15.3
30°-40°	681.0	18.3
40°-50°	697.4	18.7
50°-60°	610.7	16.4
60°-70°	430.0	11.5
70°-80°	201.3	5.4
80°-90°	30.9	0.8
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°	1077.6	28.9
0°-40°	1758.7	47.2
0°-60°	3066.8	82.2
0°-90°	3729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1386	1387	1381	1391	1384	132
15°	1335	1337	1331	1341	1334	377
25°	1229	1235	1232	1239	1239	567
35°	1085	1085	1088	1092	1101	680
45°	901	900	906	906	906	697
55°	690	684	684	684	686	617
65°	444	436	429	427	439	442
75°	194	190	183	183	193	210
85°	20	20	18	18	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.0	1394.0	1394.0	1394.0	1394.0
2.5°	1387.0	1394.0	1385.6	1394.0	1394.0
5°	1385.6	1387.0	1381.4	1391.2	1384.2
7.5°	1382.8	1381.4	1374.4	1382.8	1381.4
10°	1370.3	1370.3	1366.1	1371.7	1366.1
12.5°	1353.5	1354.9	1352.1	1357.7	1356.3
15°	1335.3	1336.7	1331.1	1340.9	1333.9
17.5°	1314.4	1314.4	1314.4	1317.2	1320.0
20°	1287.8	1289.2	1293.4	1296.2	1296.2
22.5°	1258.5	1258.5	1259.9	1264.1	1262.7
25°	1229.2	1234.8	1232.0	1239.0	1239.0
27.5°	1201.2	1202.6	1201.2	1206.8	1206.8
30°	1164.9	1160.7	1166.3	1170.5	1167.7
32.5°	1127.2	1123.0	1128.6	1134.2	1132.8
35°	1085.3	1085.3	1088.1	1092.3	1100.7
37.5°	1046.2	1043.4	1047.6	1050.4	1047.6
40°	1002.9	998.7	1001.5	1000.1	1005.7
42.5°	952.6	952.6	954.0	955.4	961.0
45°	900.9	899.5	906.5	906.5	906.5
47.5°	852.0	853.4	854.8	856.2	856.2
50°	803.2	797.6	797.6	797.6	800.4
52.5°	747.3	741.7	740.3	738.9	747.3
55°	690.0	684.4	684.4	684.4	685.8
57.5°	635.5	624.4	623.0	618.8	625.8
60°	571.3	562.9	560.1	555.9	567.1
62.5°	509.8	501.4	495.9	493.1	505.6
65°	444.2	435.8	428.8	427.4	438.6
67.5°	388.3	372.9	367.4	366.0	374.3
70°	318.5	308.7	300.3	303.1	314.3
72.5°	259.8	248.6	241.6	241.6	252.8
75°	194.2	190.0	183.0	183.0	192.8
77.5°	139.7	135.5	128.5	131.3	136.9
80°	92.2	86.6	83.8	83.8	89.4
82.5°	51.7	47.5	46.1	46.1	48.9
85°	19.6	19.6	18.2	18.2	21.0
87.5°	4.2	4.2	4.2	2.8	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)