

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: P302511

Luminaire Tested: **FSP-14-42-40-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: P302511
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-14-42-40-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
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

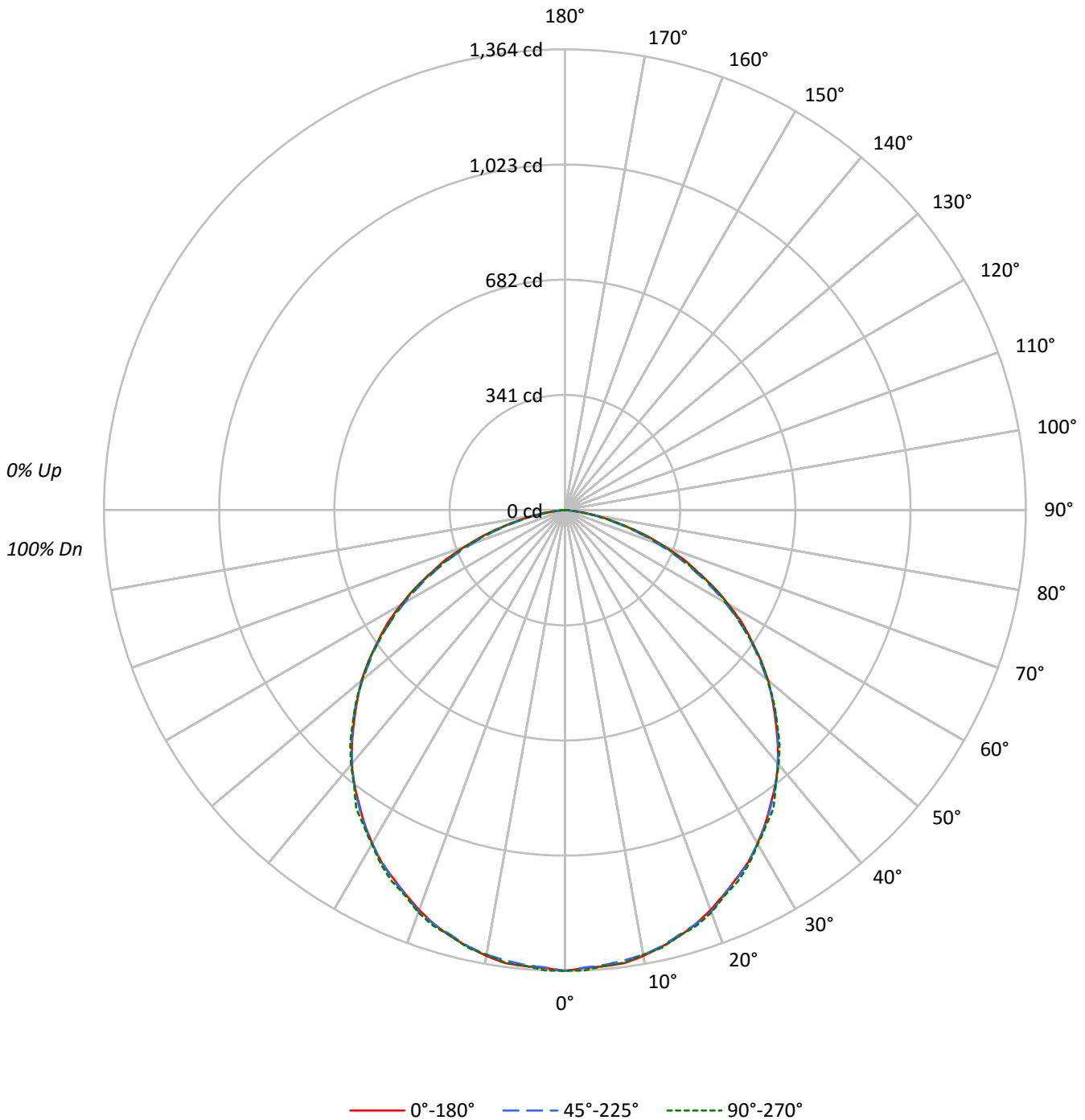
Lumens per Lamp: N/A
Luminaire Lumens: 3647.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3670	3670	3670
5°	3662	3650	3658
10°	3663	3651	3651
15°	3639	3628	3635
20°	3608	3623	3631
25°	3570	3578	3599
30°	3541	3545	3549
35°	3488	3497	3537
40°	3446	3442	3456
45°	3354	3375	3375
50°	3289	3266	3278
55°	3167	3141	3148
60°	3008	2949	2986
65°	2767	2671	2732
70°	2451	2312	2419
75°	1974	1861	1961
80°	1398	1271	1354
85°	590	550	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.5
10°-20°	368.9	10.1
20°-30°	556.3	15.3
30°-40°	666.2	18.3
40°-50°	682.3	18.7
50°-60°	597.4	16.4
60°-70°	420.7	11.5
70°-80°	196.9	5.4
80°-90°	30.2	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°	1054.2	28.9
0°-40°	1720.4	47.2
0°-60°	3000.1	82.2
0°-90°	3647.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1356	1357	1351	1361	1354	129
15°	1306	1308	1302	1312	1305	369
25°	1202	1208	1205	1212	1212	555
35°	1062	1062	1064	1068	1077	665
45°	881	880	887	887	887	681
55°	675	670	670	670	671	604
65°	434	426	420	418	429	432
75°	190	186	179	179	189	206
85°	19	19	18	18	20	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1356.8	1363.7	1355.5	1363.7	1363.7
5°	1355.5	1356.8	1351.4	1360.9	1354.1
7.5°	1352.7	1351.4	1344.5	1352.7	1351.4
10°	1340.4	1340.4	1336.3	1341.8	1336.3
12.5°	1324.0	1325.4	1322.7	1328.1	1326.8
15°	1306.3	1307.6	1302.2	1311.7	1304.9
17.5°	1285.8	1285.8	1285.8	1288.5	1291.3
20°	1259.8	1261.2	1265.3	1268.0	1268.0
22.5°	1231.1	1231.1	1232.5	1236.6	1235.2
25°	1202.4	1207.9	1205.2	1212.0	1212.0
27.5°	1175.1	1176.5	1175.1	1180.6	1180.6
30°	1139.6	1135.5	1140.9	1145.0	1142.3
32.5°	1102.7	1098.6	1104.1	1109.5	1108.2
35°	1061.7	1061.7	1064.4	1068.5	1076.7
37.5°	1023.4	1020.7	1024.8	1027.5	1024.8
40°	981.1	977.0	979.7	978.3	983.8
42.5°	931.9	931.9	933.3	934.6	940.1
45°	881.3	880.0	886.8	886.8	886.8
47.5°	833.5	834.9	836.2	837.6	837.6
50°	785.7	780.2	780.2	780.2	782.9
52.5°	731.0	725.6	724.2	722.8	731.0
55°	675.0	669.5	669.5	669.5	670.9
57.5°	621.7	610.8	609.4	605.3	612.1
60°	558.9	550.7	547.9	543.8	554.8
62.5°	498.7	490.5	485.1	482.3	494.6
65°	434.5	426.3	419.5	418.1	429.1
67.5°	379.9	364.8	359.4	358.0	366.2
70°	311.5	302.0	293.8	296.5	307.4
72.5°	254.2	243.2	236.4	236.4	247.3
75°	189.9	185.8	179.0	179.0	188.6
77.5°	136.6	132.5	125.7	128.4	133.9
80°	90.2	84.7	82.0	82.0	87.4
82.5°	50.6	46.5	45.1	45.1	47.8
85°	19.1	19.1	17.8	17.8	20.5
87.5°	4.1	4.1	4.1	2.7	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)