

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: P302481

Luminaire Tested: **FSP-14-26-35-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: P302481
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-14-26-35-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (154) 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

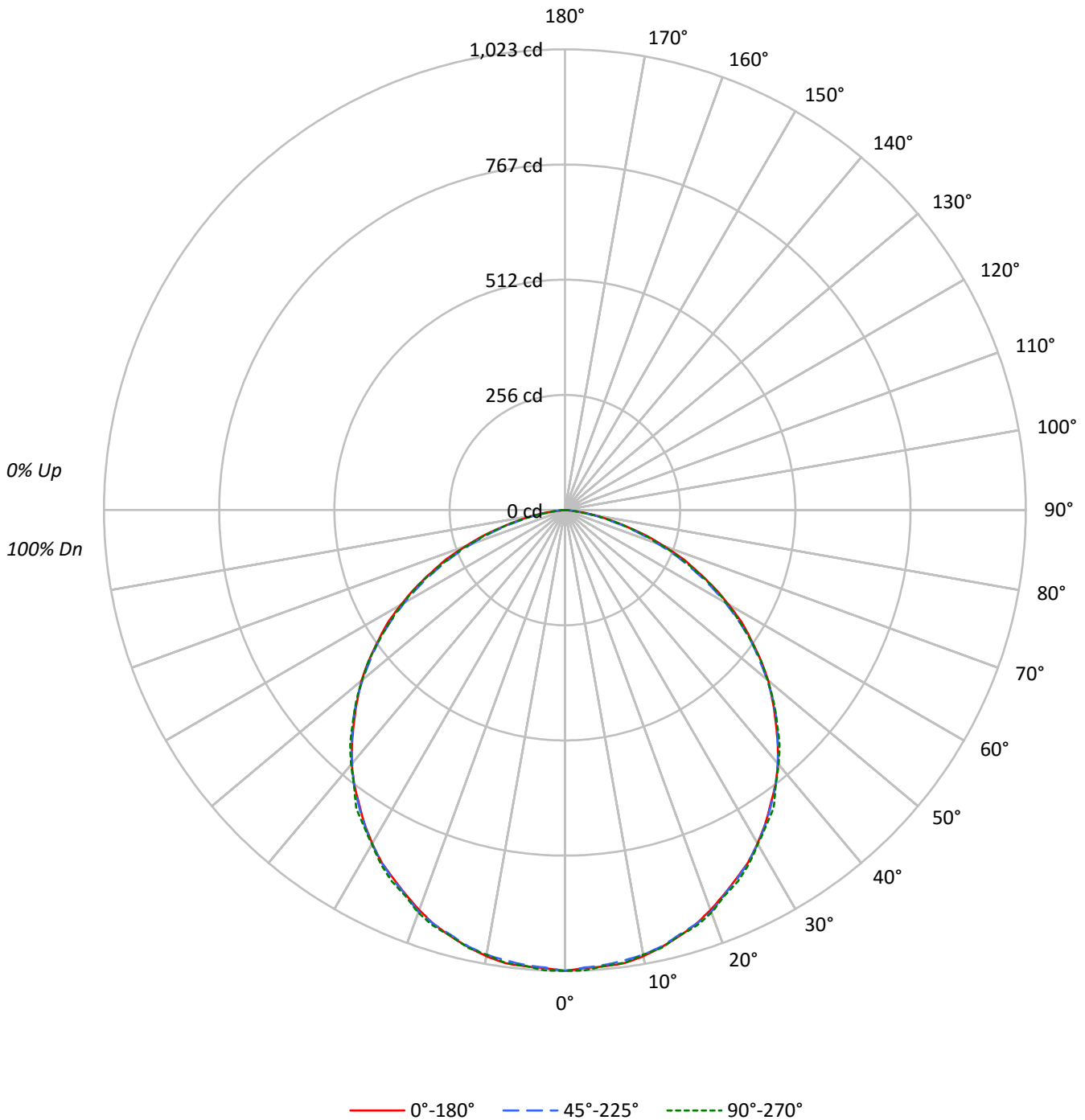
Lumens per Lamp: N/A
Luminaire Lumens: 2736.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.5
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°	2753	2753	2753
5°	2746	2738	2744
10°	2748	2739	2739
15°	2730	2721	2727
20°	2706	2718	2724
25°	2678	2684	2699
30°	2656	2659	2662
35°	2616	2623	2653
40°	2585	2582	2592
45°	2516	2531	2531
50°	2467	2450	2459
55°	2375	2356	2361
60°	2256	2212	2239
65°	2075	2004	2049
70°	1839	1734	1814
75°	1482	1396	1470
80°	1048	953	1017
85°	442	411	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.5
10°-20°	276.7	10.1
20°-30°	417.3	15.3
30°-40°	499.7	18.3
40°-50°	511.8	18.7
50°-60°	448.1	16.4
60°-70°	315.5	11.5
70°-80°	147.7	5.4
80°-90°	22.6	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°	790.8	28.9
0°-40°	1290.5	47.2
0°-60°	2250.4	82.2
0°-90°	2736.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1017	1018	1014	1021	1016	97
15°	980	981	977	984	979	276
25°	902	906	904	909	909	416
35°	796	796	798	802	808	499
45°	661	660	665	665	665	511
55°	506	502	502	502	503	453
65°	326	320	315	314	322	324
75°	142	139	134	134	141	154
85°	14	14	13	13	15	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.9	1022.9	1022.9	1022.9	1022.9
2.5°	1017.8	1022.9	1016.7	1022.9	1022.9
5°	1016.7	1017.8	1013.7	1020.8	1015.7
7.5°	1014.7	1013.7	1008.5	1014.7	1013.7
10°	1005.5	1005.5	1002.4	1006.5	1002.4
12.5°	993.2	994.2	992.1	996.2	995.2
15°	979.8	980.9	976.8	983.9	978.8
17.5°	964.5	964.5	964.5	966.5	968.6
20°	945.0	946.0	949.1	951.1	951.1
22.5°	923.5	923.5	924.5	927.6	926.5
25°	901.9	906.0	904.0	909.1	909.1
27.5°	881.4	882.5	881.4	885.5	885.5
30°	854.8	851.7	855.8	858.9	856.8
32.5°	827.1	824.0	828.1	832.2	831.2
35°	796.4	796.4	798.4	801.5	807.6
37.5°	767.7	765.6	768.7	770.8	768.7
40°	735.9	732.8	734.9	733.9	738.0
42.5°	699.0	699.0	700.0	701.1	705.2
45°	661.1	660.1	665.2	665.2	665.2
47.5°	625.2	626.2	627.3	628.3	628.3
50°	589.3	585.2	585.2	585.2	587.3
52.5°	548.3	544.2	543.2	542.2	548.3
55°	506.3	502.2	502.2	502.2	503.2
57.5°	466.3	458.1	457.1	454.0	459.2
60°	419.2	413.0	411.0	407.9	416.1
62.5°	374.1	368.0	363.9	361.8	371.0
65°	325.9	319.8	314.7	313.6	321.8
67.5°	284.9	273.7	269.6	268.5	274.7
70°	233.7	226.5	220.4	222.4	230.6
72.5°	190.6	182.4	177.3	177.3	185.5
75°	142.5	139.4	134.3	134.3	141.4
77.5°	102.5	99.4	94.3	96.3	100.4
80°	67.6	63.5	61.5	61.5	65.6
82.5°	37.9	34.8	33.8	33.8	35.9
85°	14.3	14.3	13.3	13.3	15.4
87.5°	3.1	3.1	3.1	2.0	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)