

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: P302479

Luminaire Tested: **FSP-14-26-35-CP187**

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: P302479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-5)
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-CP187
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .187"
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

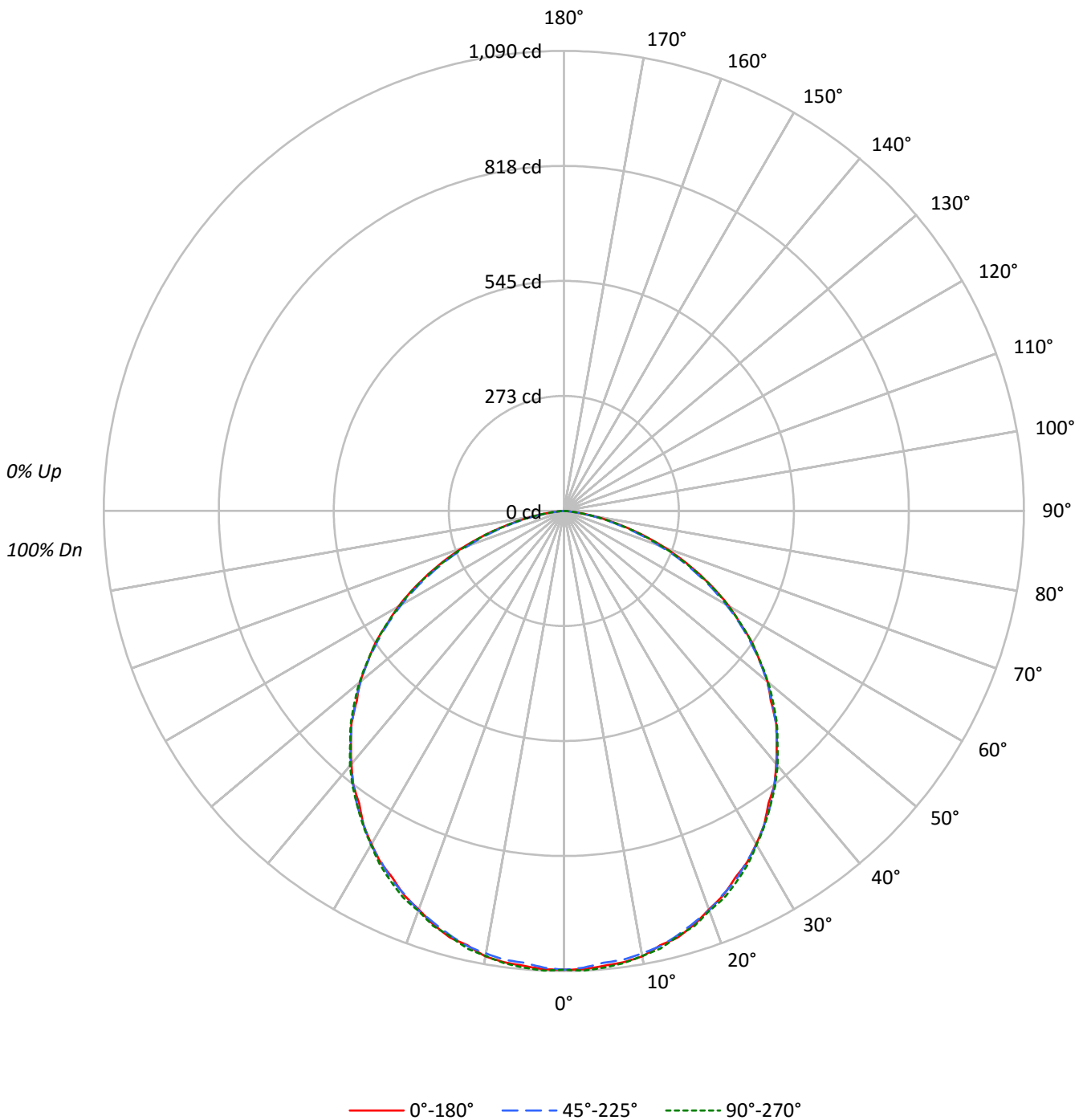
Lumens per Lamp: N/A
Luminaire Lumens: 2942.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2925	2925	2925
5°	2922	2903	2933
10°	2928	2908	2925
15°	2914	2899	2905
20°	2877	2883	2886
25°	2849	2865	2877
30°	2832	2838	2838
35°	2778	2802	2802
40°	2751	2758	2769
45°	2707	2703	2718
50°	2638	2629	2647
55°	2557	2528	2552
60°	2436	2392	2419
65°	2255	2183	2235
70°	2011	1906	1970
75°	1632	1537	1612
80°	1130	1049	1113
85°	537	475	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.5
10°-20°	294.1	10.0
20°-30°	444.5	15.1
30°-40°	533.5	18.1
40°-50°	548.9	18.7
50°-60°	483.9	16.4
60°-70°	345.1	11.7
70°-80°	163.9	5.6
80°-90°	25.5	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°	841.4	28.6
0°-40°	1374.9	46.7
0°-60°	2407.7	81.8
0°-90°	2942.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1082	1082	1075	1083	1086	103
15°	1046	1042	1041	1044	1043	294
25°	960	963	965	967	969	443
35°	846	852	853	857	853	532
45°	711	714	710	714	714	546
55°	545	545	539	542	544	485
65°	354	352	343	348	351	350
75°	157	156	148	150	155	169
85°	17	16	15	15	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1086.9	1084.9	1082.8	1085.9	1090.0
5°	1081.8	1081.8	1074.6	1082.8	1085.9
7.5°	1078.7	1072.5	1072.5	1076.7	1080.8
10°	1071.5	1065.4	1064.3	1068.4	1070.5
12.5°	1054.1	1054.1	1056.1	1057.2	1061.3
15°	1045.9	1041.8	1040.7	1043.8	1042.8
17.5°	1027.4	1024.3	1023.3	1029.4	1030.5
20°	1004.8	1005.8	1006.9	1007.9	1007.9
22.5°	986.3	987.4	984.3	994.5	992.5
25°	959.6	962.7	964.8	966.8	968.9
27.5°	939.1	937.1	937.1	941.2	944.3
30°	911.4	910.4	913.5	915.5	913.5
32.5°	882.7	883.7	882.7	885.8	884.7
35°	845.7	851.9	852.9	857.0	852.9
37.5°	819.0	819.0	819.0	822.1	822.1
40°	783.1	786.2	785.2	791.3	788.2
42.5°	746.2	749.2	748.2	755.4	749.2
45°	711.3	714.3	710.2	714.3	714.3
47.5°	665.1	670.2	669.2	676.4	673.3
50°	630.2	634.3	628.1	631.2	632.2
52.5°	585.0	589.1	585.0	587.1	587.1
55°	545.0	545.0	538.8	541.9	544.0
57.5°	495.7	498.8	492.7	494.7	496.8
60°	452.6	451.6	444.4	445.4	449.5
62.5°	403.4	402.3	395.1	396.2	402.3
65°	354.1	352.0	342.8	347.9	351.0
67.5°	304.8	303.8	294.6	295.6	299.7
70°	255.6	254.5	242.2	246.3	250.4
72.5°	205.3	204.2	195.0	198.1	203.2
75°	157.0	156.0	147.8	149.8	155.0
77.5°	113.9	110.8	105.7	108.8	111.9
80°	72.9	72.9	67.7	70.8	71.8
82.5°	40.0	40.0	38.0	39.0	40.0
85°	17.4	16.4	15.4	15.4	16.4
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)