

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: P302470

Luminaire Tested: **FSP-14-26-30-CA08**

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: P302470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-14-26-30-CA08
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .08"
Light Source: (154) 3000 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

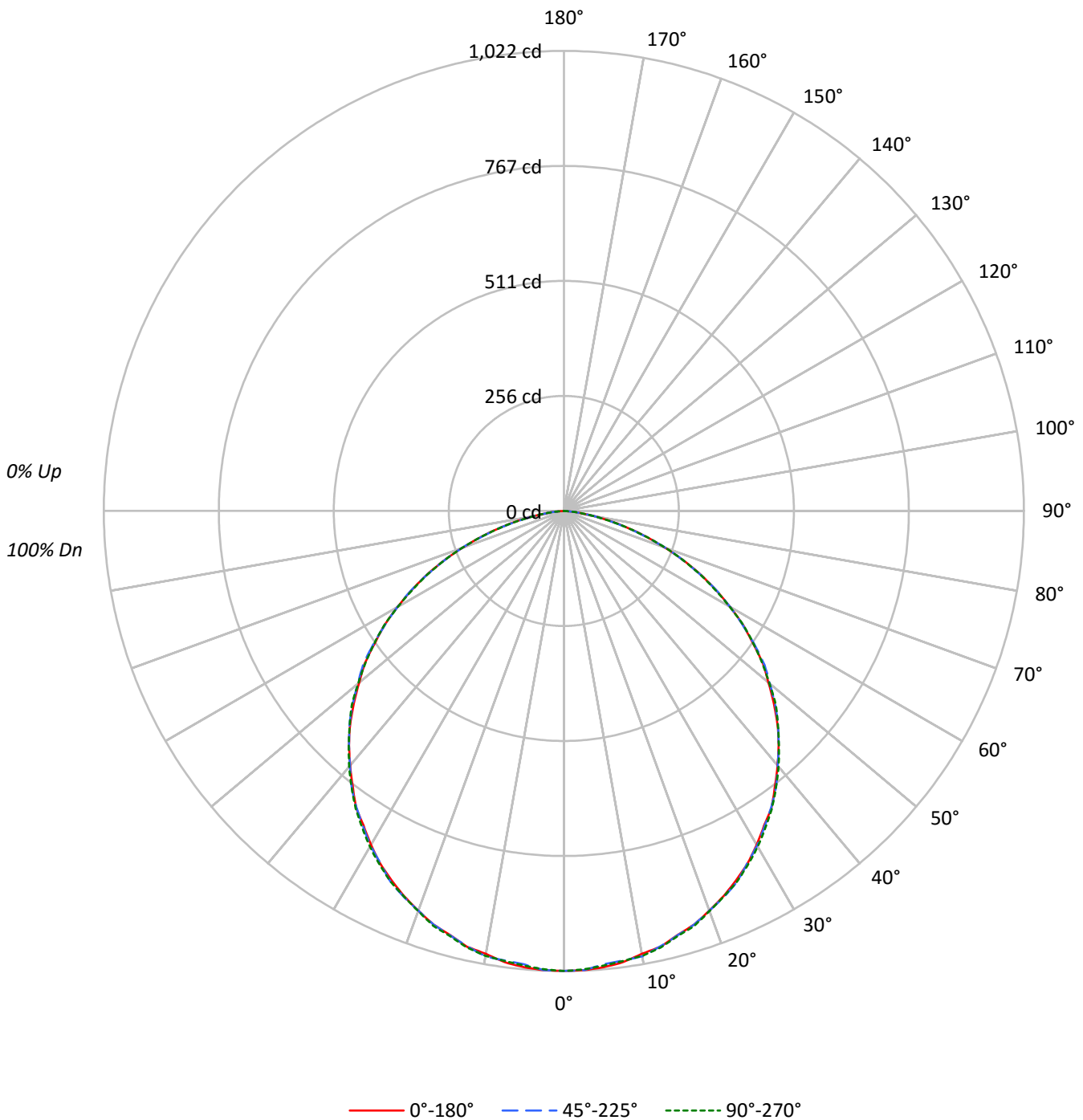
Lumens per Lamp: N/A
Luminaire Lumens: 2790.3 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2750	2750	2750
5°	2748	2730	2738
10°	2729	2745	2742
15°	2717	2719	2724
20°	2706	2706	2708
25°	2688	2702	2699
30°	2662	2668	2676
35°	2643	2640	2649
40°	2594	2597	2607
45°	2555	2562	2559
50°	2485	2500	2496
55°	2406	2423	2414
60°	2295	2295	2291
65°	2143	2132	2132
70°	1884	1891	1898
75°	1564	1554	1545
80°	1108	1108	1080
85°	565	537	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.5
10°-20°	276.5	9.9
20°-30°	418.3	15.0
30°-40°	502.8	18.0
40°-50°	518.8	18.6
50°-60°	460.3	16.5
60°-70°	330.8	11.9
70°-80°	159.5	5.7
80°-90°	26.7	1.0
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°	791.4	28.4
0°-40°	1294.2	46.4
0°-60°	2273.3	81.5
0°-90°	2790.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1017	1017	1011	1018	1014	97
15°	975	982	976	983	978	276
25°	905	907	910	910	909	417
35°	804	804	804	805	806	501
45°	671	672	673	674	672	517
55°	513	516	516	516	515	459
65°	337	338	335	332	335	331
75°	150	149	150	150	149	161
85°	18	17	17	18	17	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.8	1021.8	1021.8	1021.8	1021.8
2.5°	1020.9	1023.7	1020.9	1022.8	1019.1
5°	1017.3	1017.3	1010.8	1018.2	1013.6
7.5°	1010.8	1011.8	1007.2	1014.5	1008.1
10°	998.9	1005.3	1004.4	1007.2	1003.5
12.5°	991.6	994.3	990.7	996.2	993.4
15°	975.1	981.5	976.0	983.3	977.8
17.5°	963.1	964.1	963.1	966.8	965.9
20°	944.8	946.6	944.8	951.2	945.7
22.5°	926.4	928.3	928.3	931.0	927.4
25°	905.3	907.2	909.9	909.9	909.0
27.5°	883.3	882.4	882.4	888.8	886.1
30°	856.7	860.4	858.6	863.2	861.3
32.5°	828.3	832.0	830.1	834.7	833.8
35°	804.4	804.4	803.5	805.4	806.3
37.5°	770.5	771.4	774.2	776.0	774.2
40°	738.4	741.2	739.3	741.2	742.1
42.5°	706.3	709.1	706.3	710.9	707.2
45°	671.4	672.4	673.3	674.2	672.4
47.5°	632.9	637.5	636.6	638.4	639.3
50°	593.5	599.9	597.1	599.0	596.2
52.5°	557.7	557.7	562.3	556.8	555.9
55°	512.8	516.4	516.4	515.5	514.6
57.5°	472.4	474.2	470.6	472.4	473.3
60°	426.5	428.4	426.5	425.6	425.6
62.5°	380.7	382.5	382.5	381.6	378.8
65°	336.6	337.6	334.8	332.1	334.8
67.5°	288.9	288.0	288.0	286.2	288.0
70°	239.4	242.2	240.3	238.5	241.2
72.5°	193.5	195.4	192.6	191.7	193.5
75°	150.4	148.6	149.5	149.5	148.6
77.5°	111.0	108.2	106.4	106.4	107.3
80°	71.5	70.6	71.5	69.7	69.7
82.5°	40.4	40.4	40.4	40.4	41.3
85°	18.3	17.4	17.4	18.3	17.4
87.5°	4.6	4.6	5.5	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)