

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: P302473

Luminaire Tested: **FSP-14-26-30-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: P302473
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-14-26-30-CP187
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .187"
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

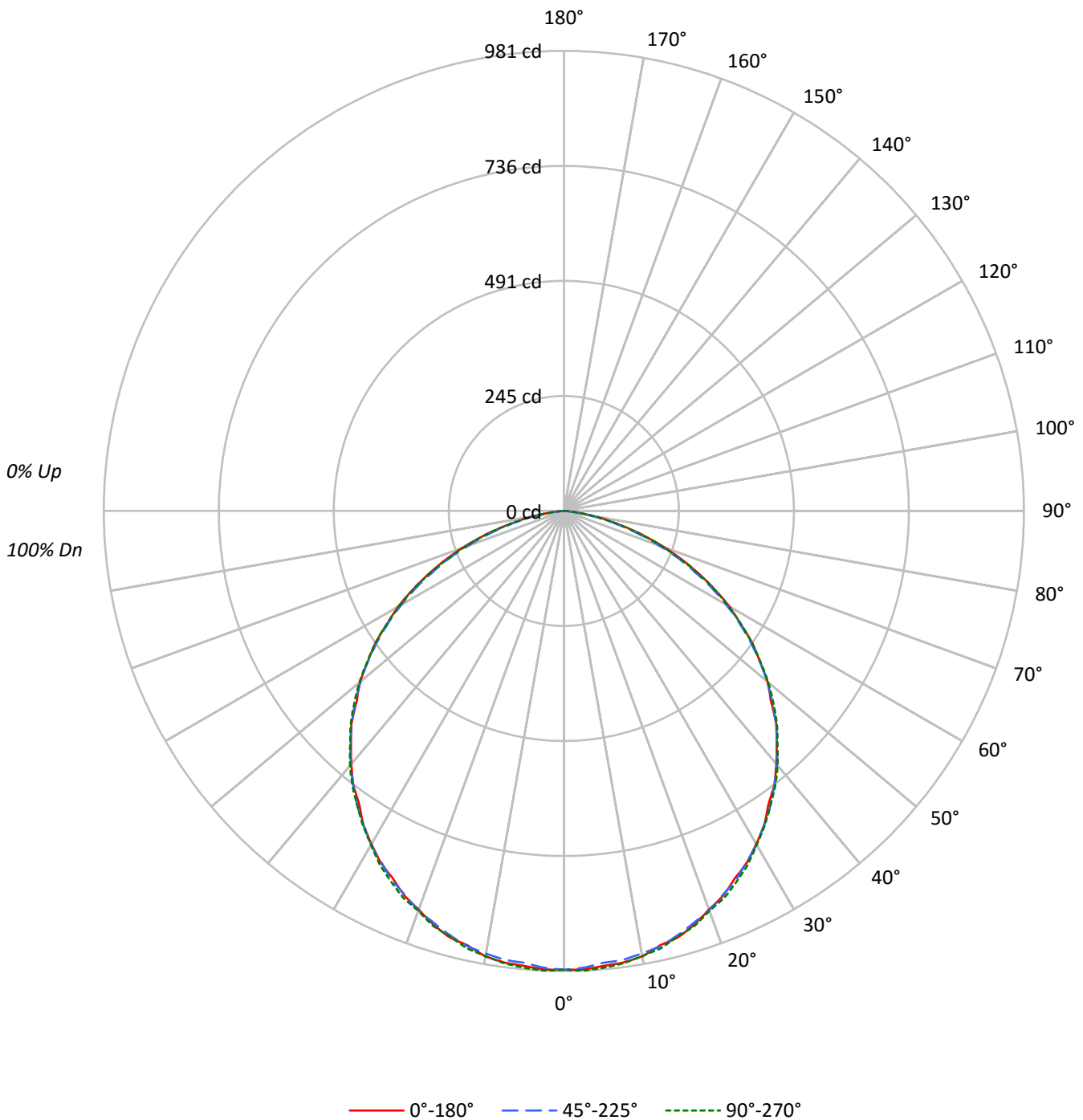
Lumens per Lamp: N/A
Luminaire Lumens: 2648.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2633	2633	2633
5°	2630	2613	2640
10°	2635	2618	2633
15°	2623	2610	2615
20°	2590	2595	2598
25°	2565	2579	2589
30°	2549	2555	2555
35°	2501	2522	2522
40°	2476	2483	2492
45°	2437	2433	2447
50°	2375	2367	2382
55°	2302	2275	2297
60°	2193	2153	2178
65°	2029	1965	2012
70°	1810	1715	1773
75°	1470	1383	1450
80°	1017	945	1003
85°	485	429	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.5
10°-20°	264.7	10.0
20°-30°	400.1	15.1
30°-40°	480.2	18.1
40°-50°	494.1	18.7
50°-60°	435.6	16.4
60°-70°	310.6	11.7
70°-80°	147.5	5.6
80°-90°	23.0	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°	757.4	28.6
0°-40°	1237.6	46.7
0°-60°	2167.3	81.8
0°-90°	2648.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	974	974	967	975	978	93
15°	941	938	937	940	939	265
25°	864	867	868	870	872	399
35°	761	767	768	771	768	478
45°	640	643	639	643	643	492
55°	491	491	485	488	490	436
65°	319	317	309	313	316	315
75°	141	140	133	135	140	152
85°	16	15	14	14	15	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.4	978.4	978.4	978.4	978.4
2.5°	978.4	976.5	974.7	977.5	981.2
5°	973.8	973.8	967.3	974.7	977.5
7.5°	971.0	965.5	965.5	969.2	972.9
10°	964.5	959.0	958.1	961.8	963.6
12.5°	948.8	948.8	950.7	951.6	955.3
15°	941.4	937.7	936.8	939.6	938.7
17.5°	924.8	922.0	921.1	926.7	927.6
20°	904.5	905.4	906.3	907.3	907.3
22.5°	887.9	888.8	886.0	895.2	893.4
25°	863.8	866.6	868.5	870.3	872.1
27.5°	845.4	843.5	843.5	847.2	850.0
30°	820.4	819.5	822.3	824.1	822.3
32.5°	794.5	795.5	794.5	797.3	796.4
35°	761.3	766.8	767.8	771.4	767.8
37.5°	737.3	737.3	737.3	740.0	740.0
40°	704.9	707.7	706.8	712.3	709.5
42.5°	671.7	674.4	673.5	680.0	674.4
45°	640.3	643.0	639.3	643.0	643.0
47.5°	598.7	603.3	602.4	608.8	606.1
50°	567.3	571.0	565.4	568.2	569.1
52.5°	526.6	530.3	526.6	528.5	528.5
55°	490.6	490.6	485.0	487.8	489.7
57.5°	446.2	449.0	443.5	445.3	447.2
60°	407.4	406.5	400.0	401.0	404.7
62.5°	363.1	362.2	355.7	356.6	362.2
65°	318.7	316.9	308.6	313.2	316.0
67.5°	274.4	273.5	265.2	266.1	269.8
70°	230.0	229.1	218.0	221.7	225.4
72.5°	184.8	183.9	175.5	178.3	182.9
75°	141.4	140.4	133.0	134.9	139.5
77.5°	102.6	99.8	95.2	97.9	100.7
80°	65.6	65.6	61.0	63.7	64.7
82.5°	36.0	36.0	34.2	35.1	36.0
85°	15.7	14.8	13.9	13.9	14.8
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)