

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: P302475

Luminaire Tested: **FSP-14-26-30-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: P302475
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-14-26-30-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
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

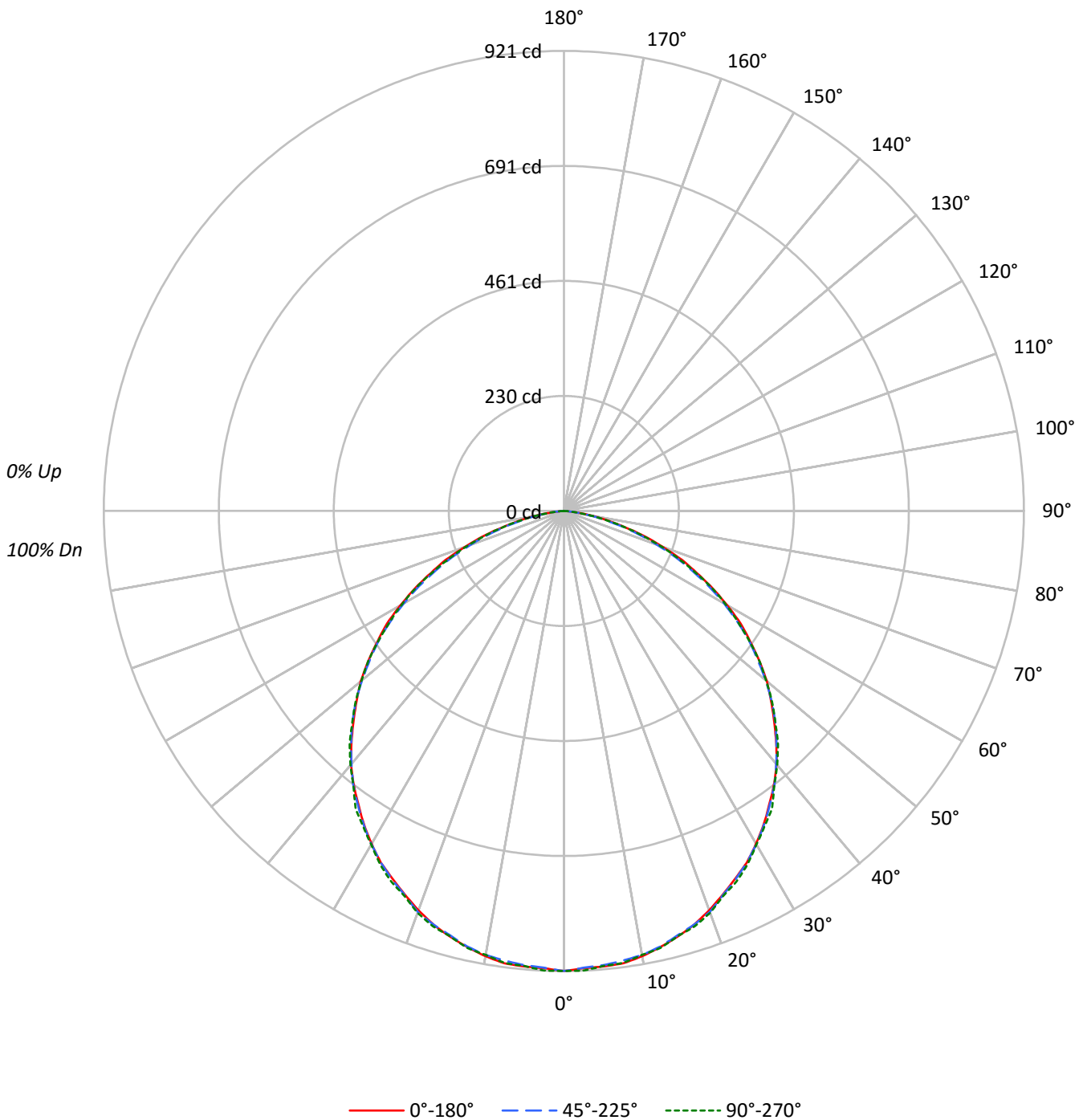
Lumens per Lamp: N/A
Luminaire Lumens: 2463.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2478	2478	2478
5°	2472	2465	2470
10°	2473	2466	2466
15°	2457	2449	2455
20°	2436	2446	2452
25°	2411	2416	2430
30°	2391	2394	2397
35°	2355	2361	2388
40°	2327	2324	2334
45°	2265	2279	2279
50°	2221	2205	2213
55°	2138	2121	2125
60°	2031	1991	2016
65°	1868	1803	1845
70°	1655	1561	1633
75°	1333	1257	1324
80°	944	859	914
85°	398	371	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.5
10°-20°	249.1	10.1
20°-30°	375.6	15.3
30°-40°	449.8	18.3
40°-50°	460.7	18.7
50°-60°	403.4	16.4
60°-70°	284.0	11.5
70°-80°	133.0	5.4
80°-90°	20.4	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°	711.8	28.9
0°-40°	1161.6	47.2
0°-60°	2025.7	82.2
0°-90°	2463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2463.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	915	916	912	919	914	87
15°	882	883	879	886	881	249
25°	812	816	814	818	818	375
35°	717	717	719	722	727	449
45°	595	594	599	599	599	460
55°	456	452	452	452	453	408
65°	293	288	283	282	290	292
75°	128	126	121	121	127	139
85°	13	13	12	12	14	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.8	920.8	920.8	920.8	920.8
2.5°	916.1	920.8	915.2	920.8	920.8
5°	915.2	916.1	912.5	918.9	914.3
7.5°	913.4	912.5	907.8	913.4	912.5
10°	905.1	905.1	902.3	906.0	902.3
12.5°	894.0	894.9	893.1	896.8	895.8
15°	882.0	882.9	879.2	885.7	881.1
17.5°	868.2	868.2	868.2	870.0	871.9
20°	850.6	851.6	854.3	856.2	856.2
22.5°	831.3	831.3	832.2	835.0	834.0
25°	811.9	815.6	813.7	818.3	818.3
27.5°	793.4	794.4	793.4	797.1	797.1
30°	769.4	766.7	770.4	773.1	771.3
32.5°	744.5	741.8	745.5	749.2	748.2
35°	716.9	716.9	718.7	721.5	727.0
37.5°	691.0	689.2	692.0	693.8	692.0
40°	662.4	659.7	661.5	660.6	664.3
42.5°	629.2	629.2	630.1	631.1	634.7
45°	595.1	594.2	598.8	598.8	598.8
47.5°	562.8	563.7	564.6	565.6	565.6
50°	530.5	526.8	526.8	526.8	528.7
52.5°	493.6	489.9	489.0	488.1	493.6
55°	455.8	452.1	452.1	452.1	453.0
57.5°	419.8	412.4	411.5	408.7	413.3
60°	377.3	371.8	370.0	367.2	374.6
62.5°	336.7	331.2	327.5	325.7	334.0
65°	293.4	287.9	283.2	282.3	289.7
67.5°	256.5	246.3	242.6	241.7	247.3
70°	210.4	203.9	198.4	200.2	207.6
72.5°	171.6	164.2	159.6	159.6	167.0
75°	128.2	125.5	120.9	120.9	127.3
77.5°	92.3	89.5	84.9	86.7	90.4
80°	60.9	57.2	55.4	55.4	59.0
82.5°	34.1	31.4	30.4	30.4	32.3
85°	12.9	12.9	12.0	12.0	13.8
87.5°	2.8	2.8	2.8	1.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)