

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: P302529

Luminaire Tested: **FSP-22-21-35-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: P302529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-22-21-35-CP375
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (126) 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

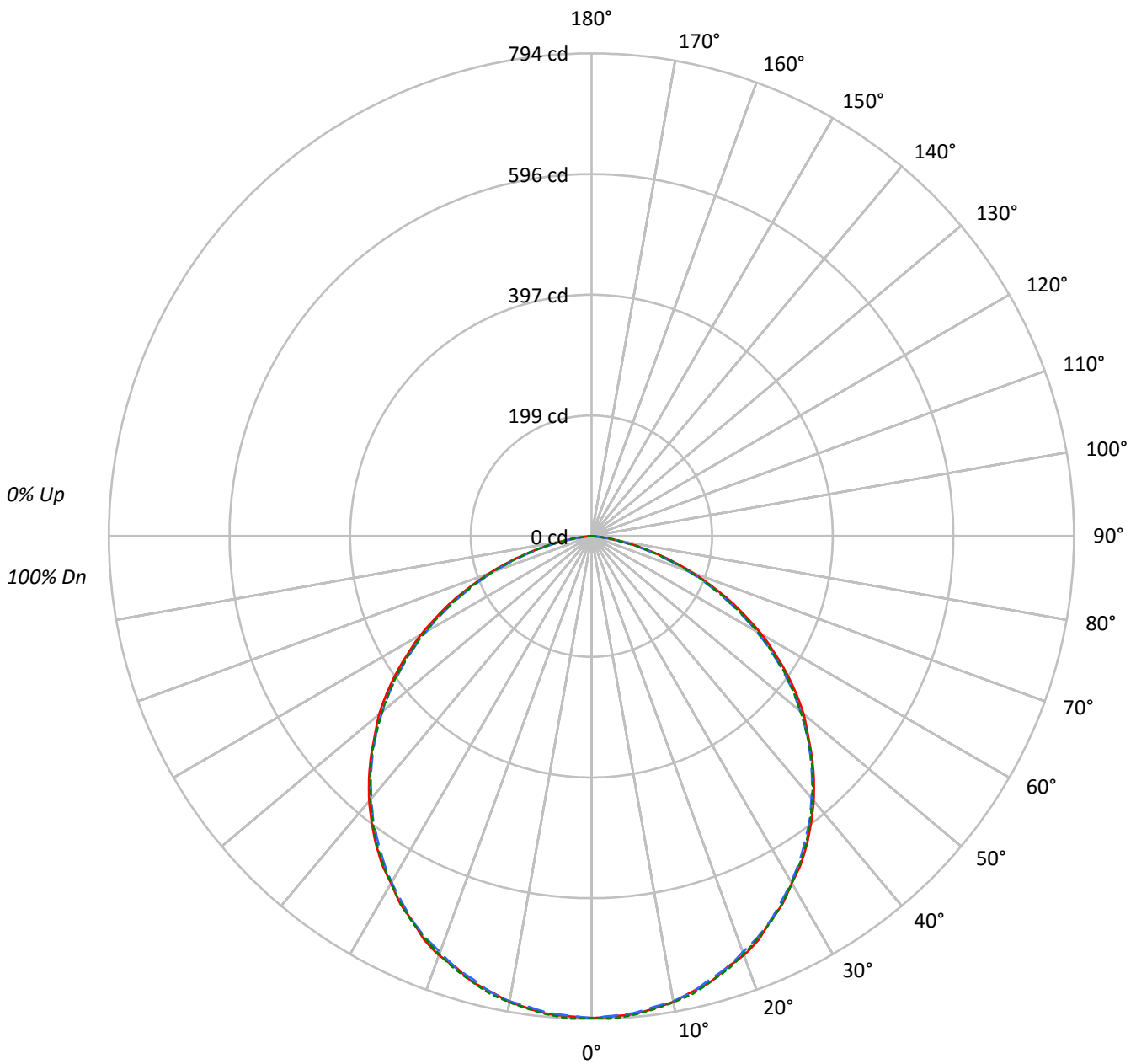
Lumens per Lamp: N/A
Luminaire Lumens: 2103.7 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	77	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	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2132	2132	2132
5°	2133	2128	2135
10°	2125	2122	2127
15°	2114	2101	2114
20°	2101	2085	2096
25°	2071	2071	2076
30°	2048	2043	2048
35°	2031	2013	2025
40°	1998	1979	1985
45°	1952	1938	1945
50°	1910	1879	1883
55°	1835	1800	1813
60°	1744	1689	1709
65°	1601	1542	1553
70°	1407	1348	1370
75°	1132	1065	1103
80°	764	722	764
85°	346	315	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.6
10°-20°	213.6	10.2
20°-30°	321.5	15.3
30°-40°	384.5	18.3
40°-50°	393.3	18.7
50°-60°	343.9	16.3
60°-70°	241.9	11.5
70°-80°	112.8	5.4
80°-90°	17.5	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°	609.9	29.0
0°-40°	994.4	47.3
0°-60°	1731.6	82.3
0°-90°	2103.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	790	787	788	786	790	75
15°	759	758	754	756	759	214
25°	697	698	697	696	699	322
35°	618	617	613	613	616	386
45°	513	511	509	509	511	396
55°	391	387	384	382	386	349
65°	251	247	242	241	244	248
75°	109	106	102	103	106	117
85°	11	10	10	11	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.4	792.4	792.4	792.4	792.4
2.5°	790.5	792.4	789.6	788.6	794.2
5°	789.6	786.8	787.7	785.8	790.5
7.5°	784.0	784.0	781.2	782.1	784.9
10°	777.5	775.6	776.5	776.5	778.4
12.5°	767.2	769.1	768.2	768.2	771.0
15°	758.8	757.9	754.2	756.1	758.8
17.5°	743.0	745.8	743.9	743.9	746.7
20°	733.7	731.8	728.1	730.0	731.8
22.5°	718.8	716.9	714.2	715.1	716.0
25°	697.4	698.3	697.4	696.5	699.3
27.5°	681.6	678.8	676.9	676.9	680.6
30°	659.2	661.1	657.4	657.4	659.2
32.5°	640.6	639.7	635.9	636.9	638.7
35°	618.3	617.3	612.7	612.7	616.4
37.5°	594.0	592.2	589.4	587.5	591.2
40°	568.9	568.9	563.3	561.5	565.2
42.5°	541.9	538.2	537.2	538.2	539.1
45°	513.0	511.2	509.3	509.3	511.2
47.5°	483.2	482.3	480.4	478.6	480.4
50°	456.2	450.7	448.8	448.8	449.7
52.5°	424.6	419.0	417.1	415.3	418.1
55°	391.1	387.3	383.6	381.8	386.4
57.5°	357.5	352.9	349.2	350.1	351.0
60°	324.0	317.5	313.8	312.8	317.5
62.5°	286.8	283.1	278.4	278.4	280.3
65°	251.4	246.7	242.1	241.2	243.9
67.5°	213.2	211.4	206.7	204.8	210.4
70°	178.8	173.2	171.3	169.5	174.1
72.5°	143.4	137.8	135.9	136.9	140.6
75°	108.9	106.1	102.4	103.4	106.1
77.5°	77.3	75.4	72.6	74.5	77.3
80°	49.3	48.4	46.6	47.5	49.3
82.5°	28.9	27.9	26.1	27.0	27.0
85°	11.2	10.2	10.2	11.2	11.2
87.5°	2.8	2.8	2.8	1.9	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)