

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: P302637

Luminaire Tested: **FSP-24-64-35-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: P302637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-21)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-64-35-CP375
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (350) 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

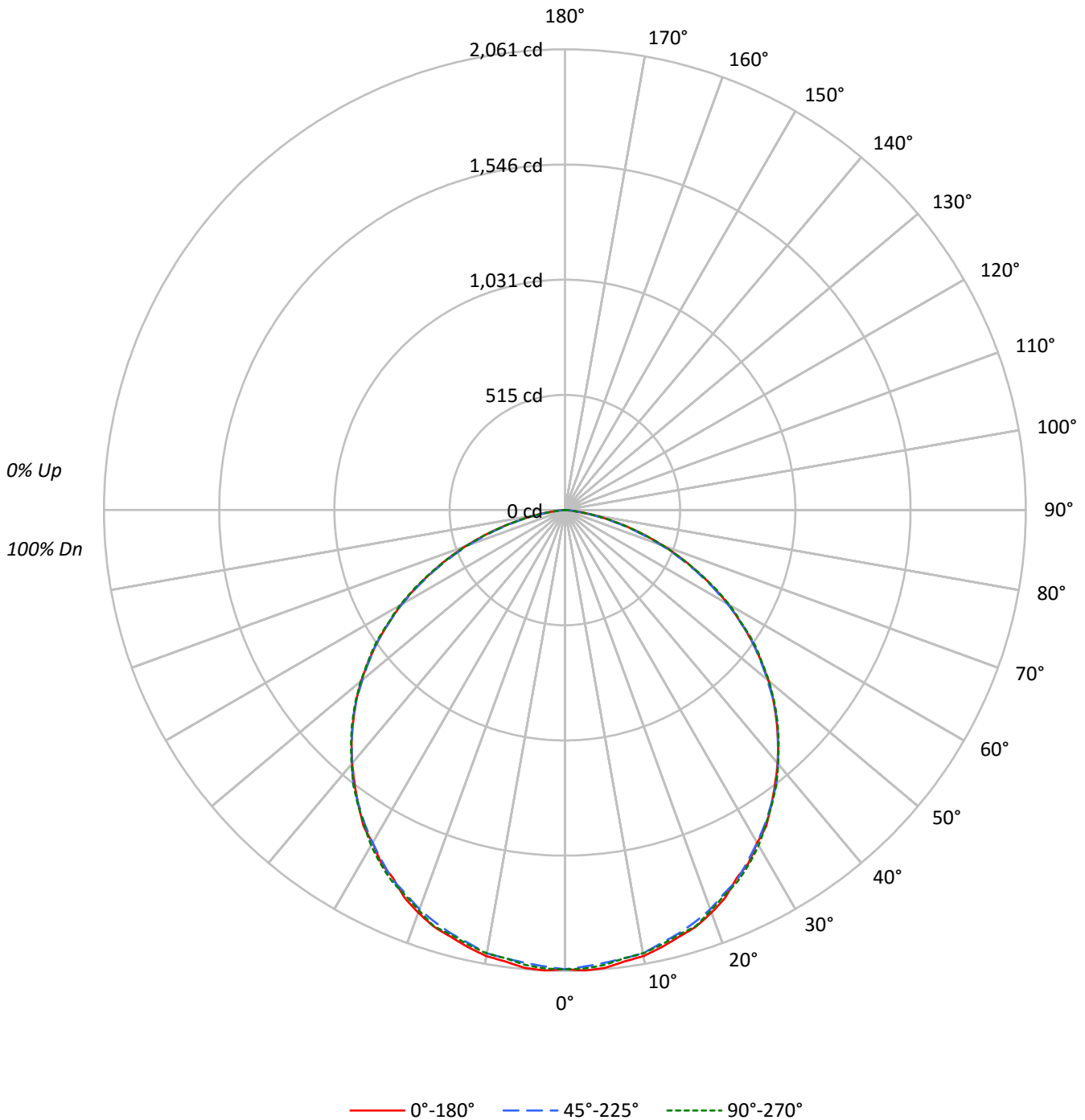
Lumens per Lamp: N/A
Luminaire Lumens: 5526.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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	87	81	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	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2764	2764	2764
5°	2777	2745	2757
10°	2767	2750	2750
15°	2752	2732	2740
20°	2744	2721	2729
25°	2697	2708	2718
30°	2670	2670	2692
35°	2644	2641	2647
40°	2599	2602	2605
45°	2547	2557	2557
50°	2488	2473	2492
55°	2390	2395	2415
60°	2271	2262	2291
65°	2085	2062	2096
70°	1853	1797	1847
75°	1503	1438	1494
80°	1037	968	1037
85°	468	414	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	3.5
10°-20°	555.7	10.1
20°-30°	839.1	15.2
30°-40°	1005.8	18.2
40°-50°	1032.6	18.7
50°-60°	908.3	16.4
60°-70°	642.5	11.6
70°-80°	301.6	5.5
80°-90°	46.5	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°	1588.8	28.8
0°-40°	2594.7	47.0
0°-60°	4535.6	82.1
0°-90°	5526.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2056	2050	2033	2042	2042	195
15°	1976	1970	1961	1963	1967	558
25°	1817	1817	1824	1818	1831	841
35°	1610	1604	1608	1610	1612	1007
45°	1338	1335	1344	1346	1344	1033
55°	1019	1019	1021	1016	1030	910
65°	655	646	648	644	658	649
75°	289	280	277	280	287	309
85°	30	30	27	29	29	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.1	2054.1	2054.1	2054.1	2054.1
2.5°	2061.2	2057.7	2043.4	2047.0	2052.3
5°	2055.9	2050.5	2032.7	2041.6	2041.6
7.5°	2036.3	2030.9	2022.0	2027.3	2022.0
10°	2025.6	2023.8	2013.1	2011.3	2013.1
12.5°	2002.4	1997.0	1984.5	1993.4	1991.6
15°	1975.6	1970.2	1961.3	1963.1	1966.7
17.5°	1952.4	1948.8	1932.8	1938.1	1950.6
20°	1916.7	1904.2	1900.6	1902.4	1906.0
22.5°	1875.6	1866.7	1857.8	1861.4	1864.9
25°	1816.8	1816.8	1823.9	1818.5	1831.0
27.5°	1779.3	1775.7	1770.4	1770.4	1784.6
30°	1718.6	1718.6	1718.6	1724.0	1732.9
32.5°	1675.8	1668.6	1665.1	1666.8	1670.4
35°	1609.7	1604.4	1608.0	1609.7	1611.5
37.5°	1543.7	1541.9	1550.8	1545.5	1552.6
40°	1479.5	1475.9	1481.2	1477.7	1483.0
42.5°	1411.6	1404.5	1409.9	1413.4	1415.2
45°	1338.5	1334.9	1343.8	1345.6	1343.8
47.5°	1265.3	1259.9	1265.3	1270.7	1270.7
50°	1188.6	1181.4	1181.4	1186.8	1190.3
52.5°	1104.7	1097.5	1101.1	1106.5	1108.3
55°	1019.0	1019.0	1020.8	1015.5	1029.7
57.5°	929.8	922.7	929.8	926.2	933.4
60°	844.1	838.8	840.6	833.4	851.3
62.5°	749.5	744.2	742.4	740.6	756.7
65°	655.0	646.0	647.8	644.3	658.5
67.5°	563.9	555.0	551.5	551.5	562.2
70°	471.1	456.9	456.9	453.3	469.4
72.5°	378.3	367.6	362.3	365.8	378.3
75°	289.1	280.2	276.6	280.2	287.3
77.5°	205.2	201.7	196.3	199.9	207.0
80°	133.8	130.3	124.9	130.3	133.8
82.5°	73.2	71.4	67.8	71.4	71.4
85°	30.3	30.3	26.8	28.6	28.6
87.5°	8.9	7.1	7.1	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)