

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: P302645

Luminaire Tested: **FSP-24-64-50-CA125**

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: P302645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-64-50-CA125
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (308) 4000 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

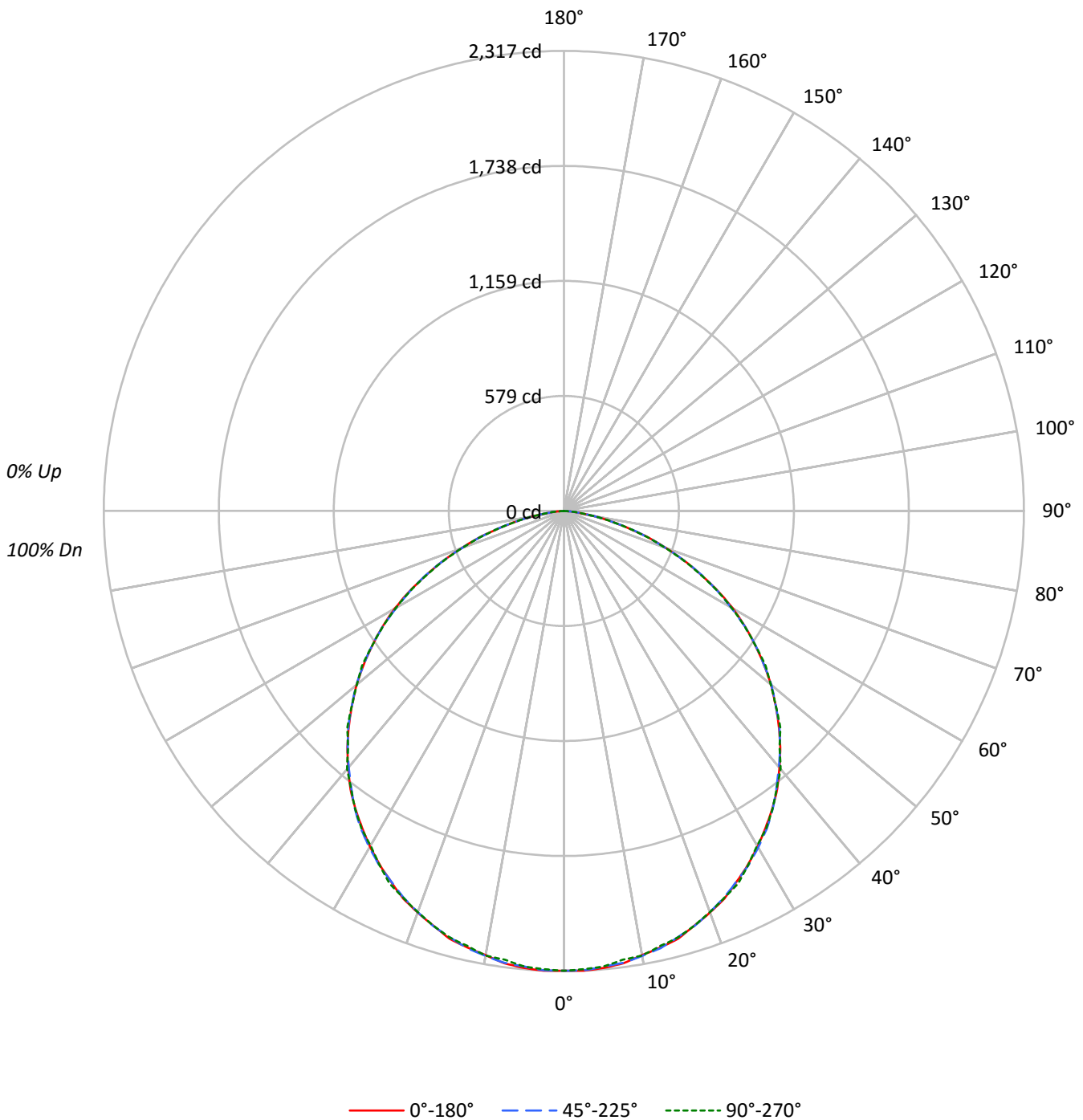
Lumens per Lamp: N/A
Luminaire Lumens: 6355.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	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	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	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	35	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°	3115	3115	3115
5°	3120	3110	3110
10°	3103	3108	3106
15°	3105	3095	3097
20°	3081	3079	3079
25°	3058	3056	3077
30°	3032	3041	3024
35°	3007	3012	3009
40°	2966	2960	2982
45°	2913	2920	2934
50°	2850	2858	2847
55°	2759	2763	2759
60°	2646	2616	2626
65°	2440	2446	2416
70°	2162	2147	2140
75°	1758	1777	1768
80°	1253	1253	1239
85°	596	596	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	3.4
10°-20°	627.2	9.9
20°-30°	950.1	14.9
30°-40°	1144.5	18.0
40°-50°	1181.7	18.6
50°-60°	1051.1	16.5
60°-70°	756.2	11.9
70°-80°	365.0	5.7
80°-90°	60.5	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°	1796.0	28.3
0°-40°	2940.5	46.3
0°-60°	5173.3	81.4
0°-90°	6355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2310	2301	2303	2297	2303	219
15°	2229	2226	2222	2227	2224	628
25°	2060	2060	2058	2058	2073	950
35°	1830	1828	1834	1832	1832	1145
45°	1531	1533	1534	1533	1542	1181
55°	1176	1174	1178	1180	1176	1051
65°	766	768	768	770	759	759
75°	338	340	342	342	340	365
85°	39	40	39	39	40	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.5	2315.5	2315.5	2315.5	2315.5
2.5°	2317.3	2315.5	2315.5	2304.5	2310.0
5°	2310.0	2300.8	2302.6	2297.1	2302.6
7.5°	2297.1	2291.6	2295.3	2282.4	2278.8
10°	2271.4	2273.2	2275.1	2265.9	2273.2
12.5°	2251.2	2256.7	2254.9	2245.7	2243.8
15°	2229.1	2225.5	2221.8	2227.3	2223.6
17.5°	2188.7	2185.0	2190.5	2188.7	2188.7
20°	2152.0	2150.1	2150.1	2144.6	2150.1
22.5°	2113.4	2107.9	2107.9	2115.2	2109.7
25°	2060.1	2060.1	2058.2	2058.2	2072.9
27.5°	2008.6	2006.8	2012.3	2016.0	2010.5
30°	1951.6	1951.6	1957.2	1953.5	1946.1
32.5°	1891.0	1889.2	1900.2	1894.7	1896.5
35°	1830.4	1828.5	1834.0	1832.2	1832.2
37.5°	1766.0	1755.0	1758.7	1767.9	1760.5
40°	1688.9	1687.0	1685.2	1688.9	1698.0
42.5°	1613.5	1609.8	1611.7	1615.3	1608.0
45°	1530.8	1532.6	1534.5	1532.6	1541.8
47.5°	1446.3	1450.0	1446.3	1455.5	1446.3
50°	1361.7	1359.9	1365.4	1365.4	1359.9
52.5°	1269.9	1271.7	1269.9	1277.2	1280.9
55°	1176.1	1174.3	1178.0	1179.8	1176.1
57.5°	1080.6	1080.6	1078.7	1086.1	1078.7
60°	983.2	975.8	972.1	975.8	975.8
62.5°	876.6	871.1	871.1	871.1	871.1
65°	766.3	768.2	768.2	770.0	759.0
67.5°	659.7	656.1	659.7	654.2	656.1
70°	549.5	551.3	545.8	549.5	544.0
72.5°	446.6	446.6	446.6	442.9	442.9
75°	338.1	340.0	341.8	341.8	340.0
77.5°	246.3	244.4	246.3	246.3	246.3
80°	161.7	158.0	161.7	159.9	159.9
82.5°	90.0	91.9	91.9	93.7	93.7
85°	38.6	40.4	38.6	38.6	40.4
87.5°	11.0	11.0	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)