

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: P302634

Luminaire Tested: **FSP-24-64-35-CP125**

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: P302634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)
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-CP125
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
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

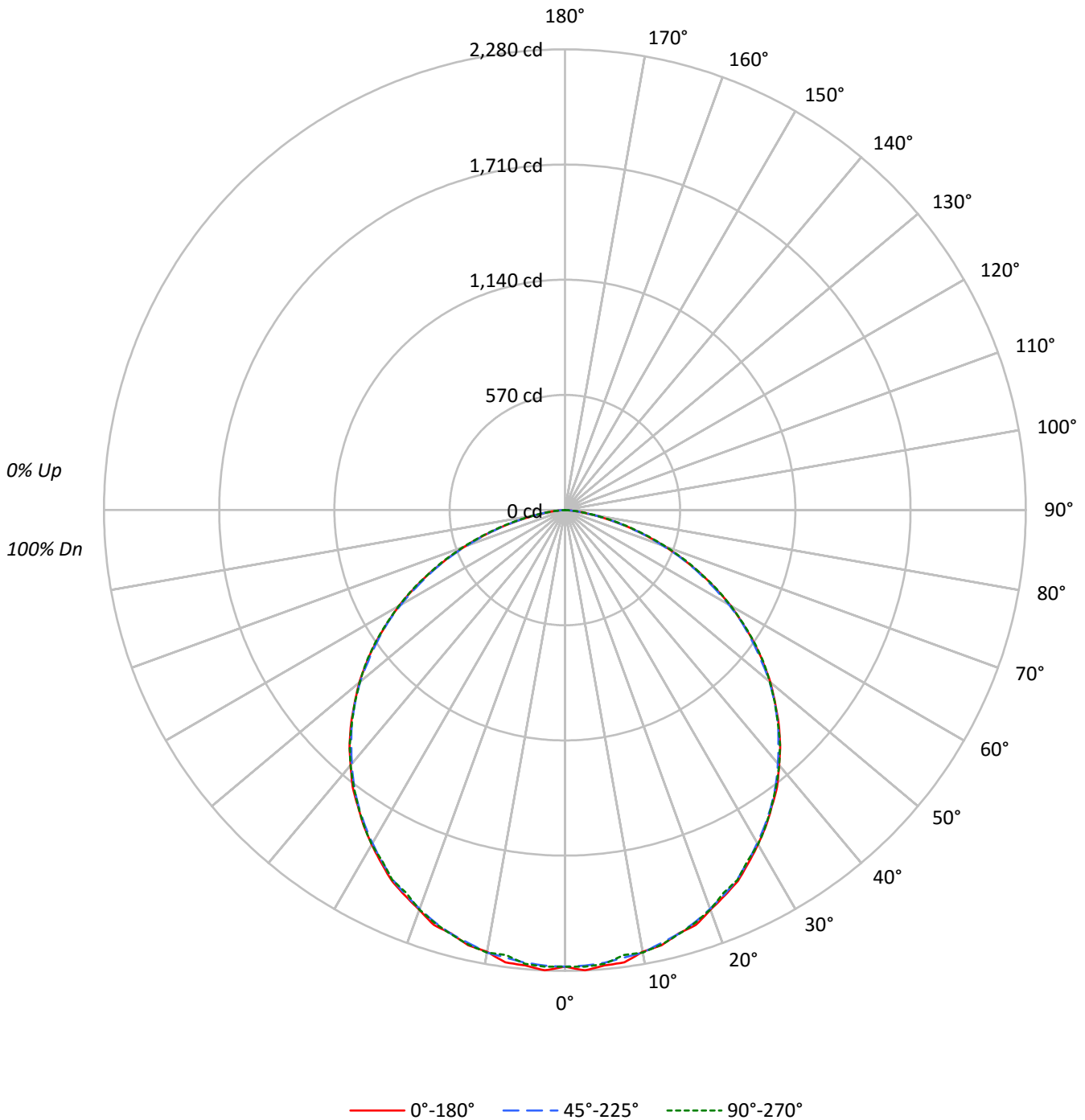
Lumens per Lamp: N/A
Luminaire Lumens: 6165.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	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°	3040	3040	3040
5°	3054	3037	3044
10°	3032	3037	3037
15°	3022	3025	3027
20°	3015	3007	3012
25°	3006	2995	2998
30°	2969	2957	2969
35°	2934	2927	2930
40°	2895	2879	2895
45°	2847	2836	2836
50°	2778	2766	2770
55°	2678	2657	2687
60°	2549	2524	2549
65°	2349	2320	2355
70°	2072	2036	2101
75°	1680	1680	1737
80°	1166	1166	1237
85°	567	567	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	3.5
10°-20°	613.0	9.9
20°-30°	928.2	15.1
30°-40°	1115.9	18.1
40°-50°	1150.5	18.7
50°-60°	1016.0	16.5
60°-70°	724.6	11.8
70°-80°	345.9	5.6
80°-90°	57.3	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°	1755.1	28.5
0°-40°	2871.0	46.6
0°-60°	5037.5	81.7
0°-90°	6165.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6165.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2261	2250	2248	2245	2254	215
15°	2170	2175	2171	2170	2173	614
25°	2025	2017	2017	2014	2019	931
35°	1786	1780	1782	1784	1784	1119
45°	1496	1492	1490	1492	1490	1152
55°	1142	1138	1132	1136	1145	1019
65°	738	742	729	727	740	729
75°	323	327	323	316	334	346
85°	37	37	37	38	40	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2279.7	2259.5	2255.9	2259.5	2261.4
5°	2261.4	2250.4	2248.5	2244.9	2254.0
7.5°	2257.7	2243.0	2233.9	2233.9	2221.0
10°	2219.2	2226.5	2222.8	2215.5	2222.8
12.5°	2206.3	2199.0	2195.3	2195.3	2202.6
15°	2169.6	2175.1	2171.4	2169.6	2173.3
17.5°	2153.1	2143.9	2138.4	2136.6	2142.1
20°	2105.4	2099.9	2099.9	2101.7	2103.5
22.5°	2065.0	2057.6	2059.5	2065.0	2050.3
25°	2024.6	2017.3	2017.3	2013.6	2019.1
27.5°	1967.7	1964.0	1960.4	1964.0	1956.7
30°	1910.8	1905.3	1903.5	1909.0	1910.8
32.5°	1852.1	1848.4	1844.7	1846.6	1850.2
35°	1786.0	1780.5	1782.3	1784.1	1784.1
37.5°	1725.4	1716.2	1714.4	1719.9	1718.1
40°	1648.3	1652.0	1639.1	1646.5	1648.3
42.5°	1576.7	1569.4	1563.9	1580.4	1574.9
45°	1496.0	1492.3	1490.5	1492.3	1490.5
47.5°	1409.7	1411.5	1406.0	1413.4	1407.9
50°	1327.1	1328.9	1321.6	1321.6	1323.4
52.5°	1235.3	1240.8	1226.1	1224.3	1239.0
55°	1141.7	1138.0	1132.5	1136.2	1145.4
57.5°	1042.6	1044.4	1040.8	1042.6	1046.3
60°	947.1	943.5	938.0	928.8	947.1
62.5°	842.5	846.2	829.7	829.7	848.0
65°	737.9	741.6	728.7	726.9	739.7
67.5°	631.4	631.4	625.9	616.7	640.6
70°	526.8	526.8	517.6	517.6	534.1
72.5°	422.2	420.3	418.5	413.0	431.4
75°	323.1	326.7	323.1	315.7	334.1
77.5°	231.3	234.9	229.4	231.3	240.5
80°	150.5	150.5	150.5	148.7	159.7
82.5°	88.1	86.3	86.3	88.1	91.8
85°	36.7	36.7	36.7	38.5	40.4
87.5°	9.2	9.2	11.0	9.2	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)