

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: METALUX

Report Number: P298756

Luminaire Tested: **24FPX-64-L835-LV1-SWPD1**

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: P298756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FPX-64-L835-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/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

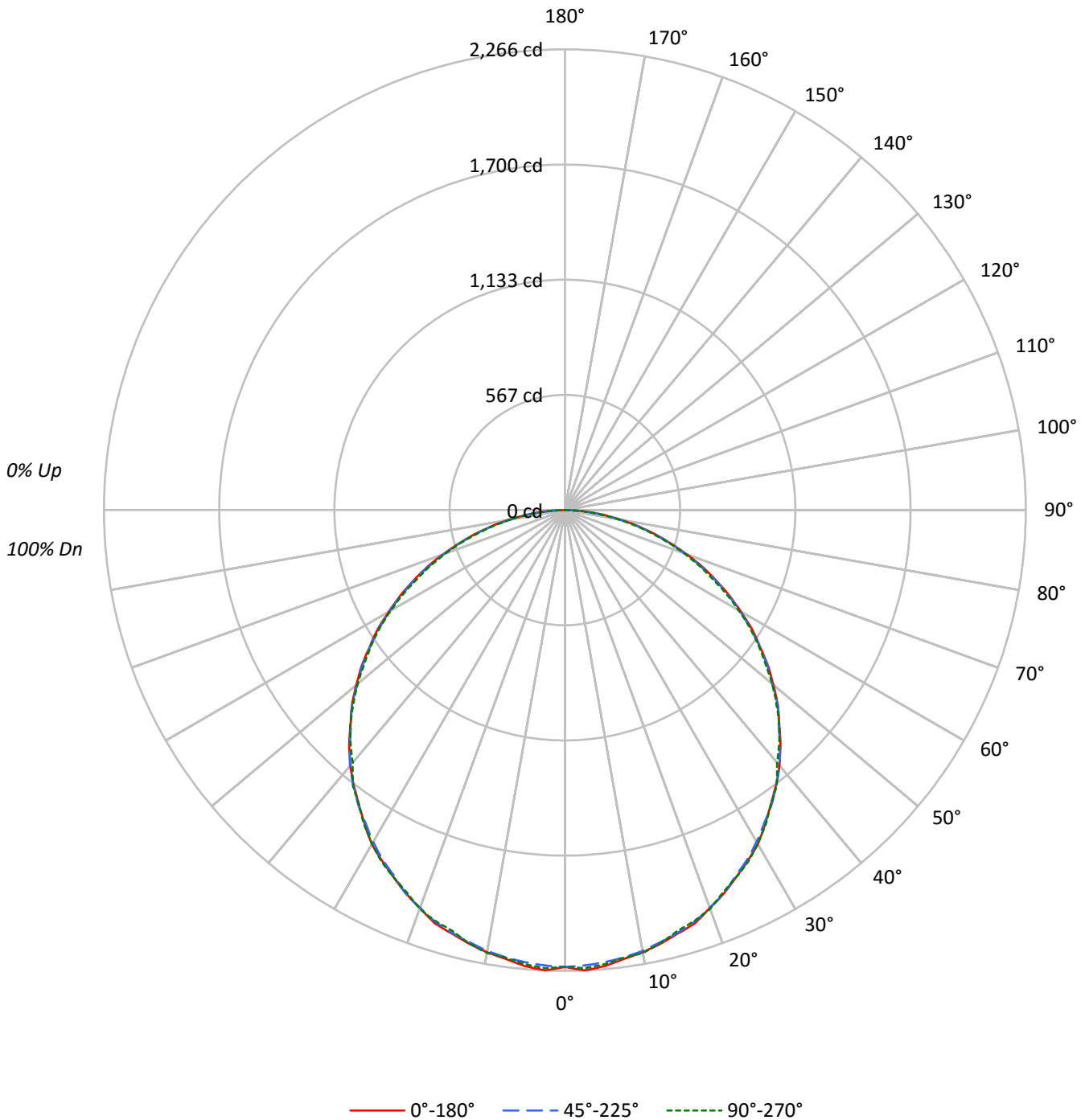
Lumens per Lamp: N/A
Luminaire Lumens: 6463.1 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 64.55
Input Voltage (V): NR
Input Current (Ain): 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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3024	3024	3024
5°	3040	3015	3028
10°	3016	3008	3021
15°	3002	2996	2983
20°	2983	2980	2988
25°	2958	2947	2958
30°	2949	2928	2946
35°	2900	2910	2900
40°	2882	2886	2849
45°	2835	2828	2839
50°	2803	2787	2787
55°	2747	2742	2729
60°	2688	2678	2658
65°	2615	2603	2555
70°	2511	2489	2459
75°	2386	2347	2307
80°	2225	2151	2122
85°	1953	1866	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	3.3
10°-20°	606.6	9.4
20°-30°	918.7	14.2
30°-40°	1107.0	17.1
40°-50°	1151.1	17.8
50°-60°	1044.6	16.2
60°-70°	806.4	12.5
70°-80°	477.7	7.4
80°-90°	138.7	2.1
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°	1737.6	26.9
0°-40°	2844.6	44.0
0°-60°	5040.3	78.0
0°-90°	6463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2251	2240	2232	2227	2242	213
15°	2155	2145	2151	2147	2142	609
25°	1992	1994	1985	1987	1992	920
35°	1766	1768	1771	1770	1766	1108
45°	1490	1494	1486	1490	1492	1153
55°	1171	1175	1169	1167	1163	1049
65°	822	822	818	810	803	813
75°	459	455	451	448	444	484
85°	126	121	121	119	119	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.3	2247.3	2247.3	2247.3	2247.3
2.5°	2266.2	2237.9	2241.7	2234.1	2254.9
5°	2251.1	2239.8	2232.2	2226.6	2241.7
7.5°	2226.6	2217.1	2219.0	2217.1	2220.9
10°	2207.7	2207.7	2202.0	2196.3	2211.4
12.5°	2183.1	2183.1	2175.6	2169.9	2181.2
15°	2154.8	2145.3	2151.0	2147.2	2141.6
17.5°	2130.2	2118.9	2122.7	2105.7	2118.9
20°	2083.0	2079.2	2081.1	2071.7	2086.8
22.5°	2041.5	2047.1	2043.4	2039.6	2033.9
25°	1992.4	1994.3	1984.8	1986.7	1992.4
27.5°	1945.2	1950.8	1939.5	1939.5	1950.8
30°	1898.0	1890.4	1884.7	1896.1	1896.1
32.5°	1831.9	1824.3	1824.3	1830.0	1835.6
35°	1765.8	1767.6	1771.4	1769.5	1765.8
37.5°	1705.3	1701.5	1707.2	1707.2	1711.0
40°	1641.1	1644.9	1643.0	1635.5	1622.2
42.5°	1569.4	1573.1	1563.7	1573.1	1559.9
45°	1490.0	1493.8	1486.3	1490.0	1491.9
47.5°	1420.2	1416.4	1420.2	1414.5	1410.7
50°	1339.0	1337.1	1331.4	1331.4	1331.4
52.5°	1259.6	1254.0	1254.0	1254.0	1242.6
55°	1170.9	1174.7	1169.0	1167.1	1163.3
57.5°	1091.6	1084.0	1082.1	1082.1	1080.2
60°	999.0	997.1	995.2	991.5	987.7
62.5°	912.2	904.6	906.5	902.7	897.0
65°	821.5	821.5	817.7	810.2	802.6
67.5°	734.6	730.9	725.2	721.4	713.9
70°	638.3	636.4	632.7	628.9	625.1
72.5°	545.8	543.9	542.0	538.2	534.4
75°	458.9	455.1	451.4	447.6	443.8
77.5°	368.3	366.4	364.5	358.8	358.8
80°	287.1	281.4	277.6	275.7	273.8
82.5°	202.1	202.1	198.3	196.4	196.4
85°	126.5	120.9	120.9	119.0	119.0
87.5°	54.8	52.9	49.1	49.1	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)