

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: P412824

Luminaire Tested: **24PD-100-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

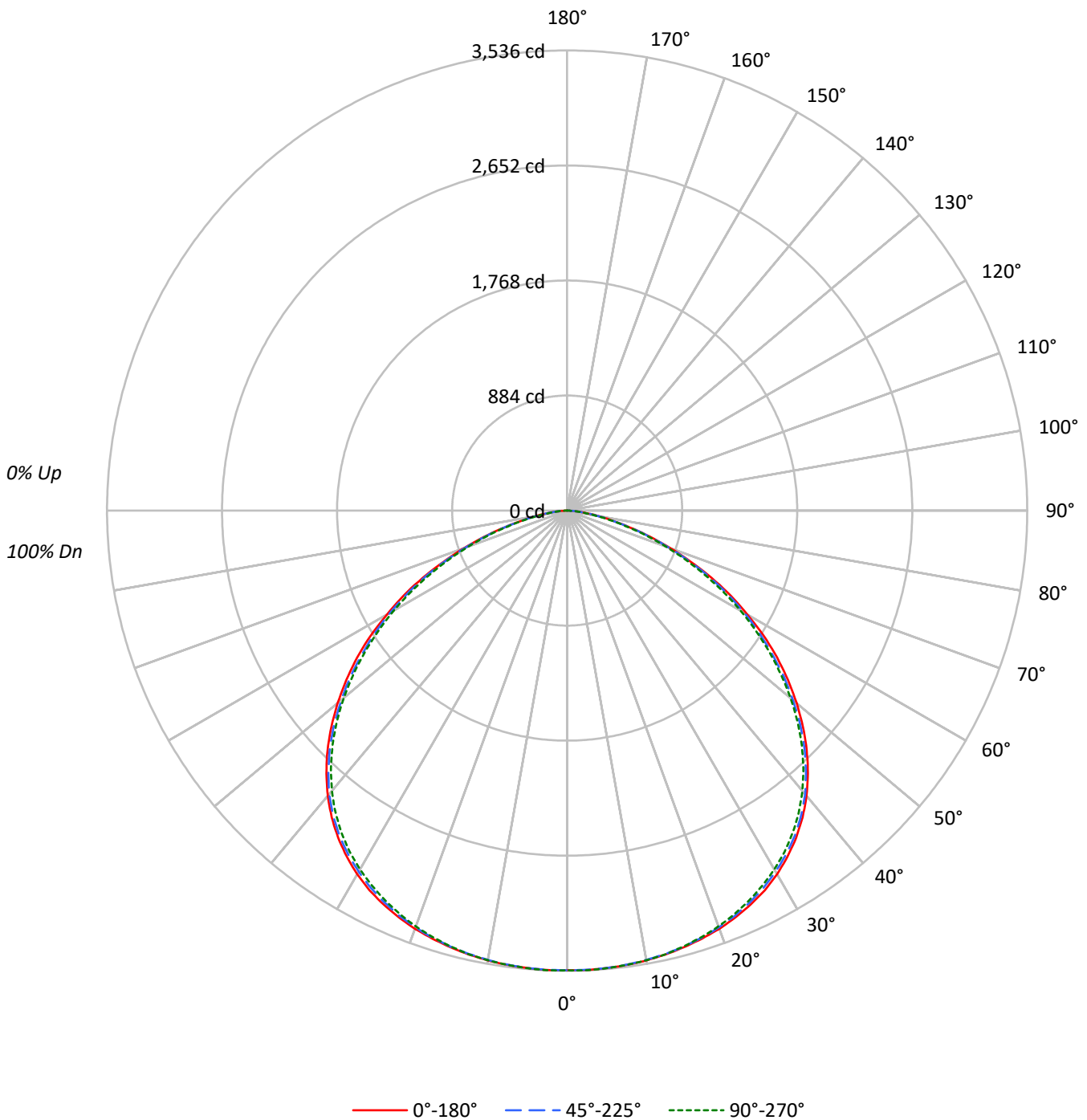
Test Method: LM-79-08  
Report Number: P412824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-100-PP3-L850  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10279.0 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.4  
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	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	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	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	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
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°	4753	4753	4753
5°	4766	4764	4767
10°	4796	4790	4794
15°	4838	4831	4828
20°	4896	4880	4868
25°	4958	4932	4909
30°	5013	4978	4946
35°	5040	5009	4964
40°	5026	4996	4940
45°	4955	4906	4851
50°	4819	4741	4692
55°	4619	4508	4451
60°	4304	4229	4144
65°	3902	3823	3712
70°	3330	3269	3164
75°	2601	2574	2451
80°	1918	1839	1735
85°	1158	1158	1079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.1	3.3
10°-20°	980.7	9.5
20°-30°	1532.9	14.9
30°-40°	1905.1	18.5
40°-50°	1985.0	19.3
50°-60°	1722.4	16.8
60°-70°	1184.4	11.5
70°-80°	534.5	5.2
80°-90°	98.0	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°	2849.7	27.7
0°-40°	4754.8	46.3
0°-60°	8462.2	82.3
0°-90°	10279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3533	3533	3533	3533	3533	
5°	3528	3530	3528	3524	3530	336
15°	3473	3473	3468	3465	3466	982
25°	3340	3338	3322	3309	3307	1541
35°	3068	3068	3050	3032	3022	1917
45°	2604	2605	2578	2559	2550	2004
55°	1969	1958	1922	1899	1897	1755
65°	1226	1220	1201	1172	1166	1209
75°	500	502	495	482	472	545
85°	75	74	75	74	70	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3532.6	3532.6	3532.6	3532.6	3532.6
2.5°	3533.6	3533.6	3531.6	3528.5	3535.7
5°	3528.5	3529.5	3527.5	3524.4	3529.5
7.5°	3521.3	3522.3	3519.2	3516.2	3520.3
10°	3510.0	3509.0	3505.9	3503.8	3509.0
12.5°	3493.6	3492.5	3489.4	3487.4	3491.5
15°	3473.0	3473.0	3467.9	3464.8	3465.8
17.5°	3448.4	3448.4	3441.2	3434.0	3436.0
20°	3419.6	3418.6	3408.3	3401.1	3400.1
22.5°	3383.6	3383.6	3369.3	3360.0	3356.9
25°	3339.5	3338.4	3322.0	3308.7	3306.6
27.5°	3289.1	3287.1	3267.6	3254.2	3249.1
30°	3226.5	3224.4	3203.9	3189.5	3183.3
32.5°	3152.5	3155.6	3132.0	3115.5	3109.4
35°	3068.3	3068.3	3049.8	3032.3	3022.1
37.5°	2971.7	2971.7	2954.3	2936.8	2924.5
40°	2861.8	2862.8	2844.4	2822.8	2812.5
42.5°	2738.6	2740.6	2716.0	2698.5	2687.2
45°	2604.0	2605.0	2578.3	2558.8	2549.5
47.5°	2458.1	2456.1	2426.3	2409.8	2400.6
50°	2302.0	2297.9	2265.0	2249.6	2241.4
52.5°	2138.7	2130.4	2101.7	2079.1	2071.9
55°	1969.2	1957.9	1921.9	1899.3	1897.3
57.5°	1792.5	1779.1	1749.3	1727.8	1719.6
60°	1599.4	1596.3	1571.6	1546.0	1539.8
62.5°	1418.6	1409.3	1387.8	1357.0	1353.9
65°	1225.5	1220.3	1200.8	1172.1	1165.9
67.5°	1026.2	1031.3	1014.9	989.2	981.0
70°	846.4	849.5	831.0	807.4	804.3
72.5°	665.6	670.8	655.4	640.0	636.9
75°	500.3	502.3	495.1	481.8	471.5
77.5°	355.4	362.6	354.4	345.1	336.9
80°	247.6	236.3	237.3	233.2	223.9
82.5°	148.9	143.8	142.8	138.7	134.6
85°	75.0	74.0	75.0	74.0	69.9
87.5°	24.7	26.7	27.7	27.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)