

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: P412828

Luminaire Tested: **24PD-100-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

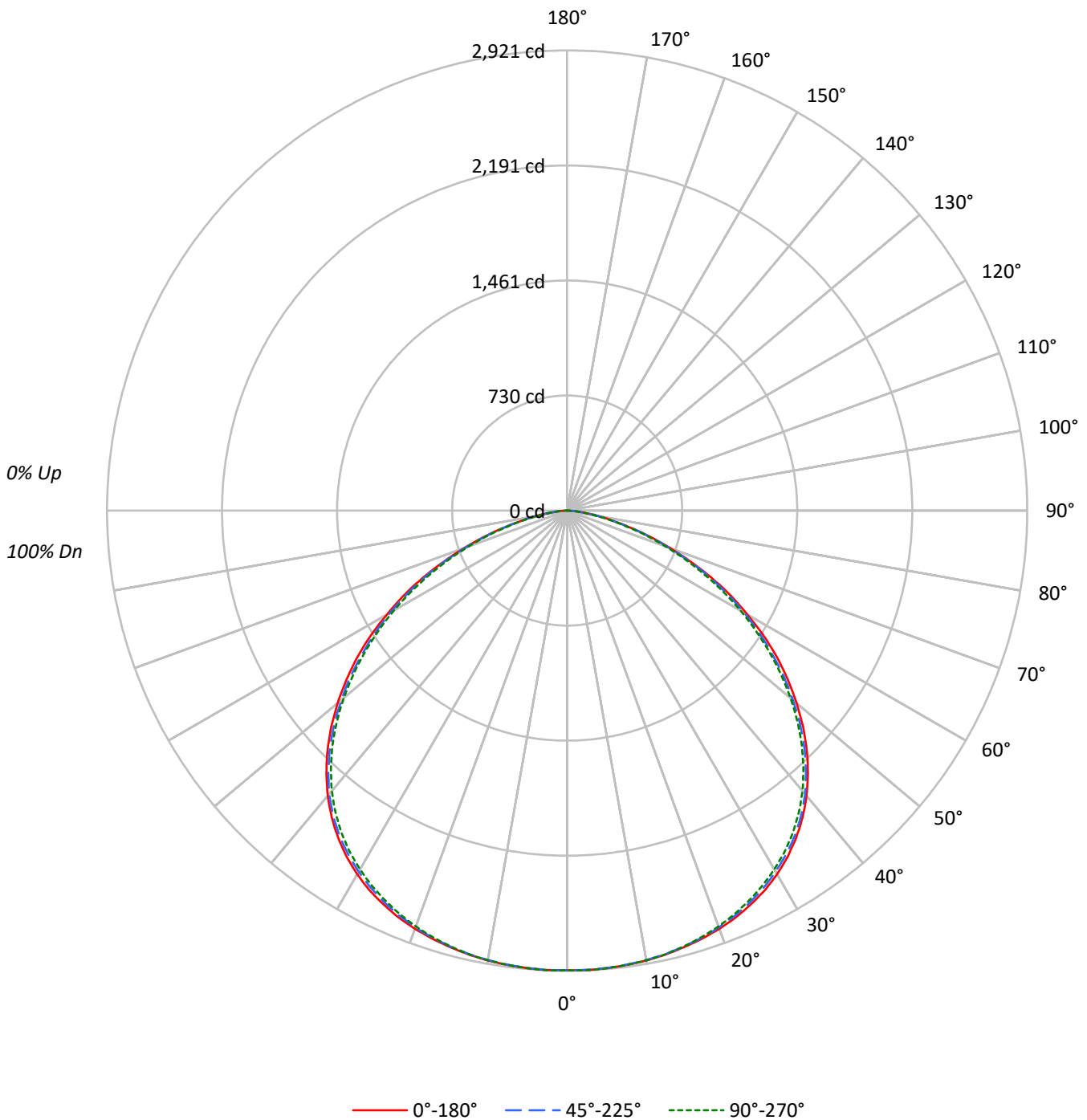
Test Method: LM-79-08  
Report Number: P412828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-100-PP3-L940  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8492.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 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°	3927	3927	3927
5°	3937	3936	3938
10°	3962	3957	3961
15°	3997	3991	3988
20°	4045	4032	4022
25°	4096	4074	4056
30°	4141	4112	4086
35°	4164	4139	4101
40°	4153	4127	4081
45°	4094	4053	4008
50°	3981	3917	3876
55°	3816	3725	3677
60°	3556	3494	3423
65°	3223	3159	3067
70°	2751	2701	2614
75°	2149	2126	2025
80°	1585	1519	1433
85°	957	957	891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.7	3.3
10°-20°	810.2	9.5
20°-30°	1266.4	14.9
30°-40°	1573.9	18.5
40°-50°	1639.9	19.3
50°-60°	1423.0	16.8
60°-70°	978.5	11.5
70°-80°	441.6	5.2
80°-90°	80.9	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°	2354.3	27.7
0°-40°	3928.2	46.3
0°-60°	6991.1	82.3
0°-90°	8492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2915	2916	2914	2912	2916	278
15°	2869	2869	2865	2862	2863	812
25°	2759	2758	2744	2734	2732	1273
35°	2535	2535	2520	2505	2497	1584
45°	2151	2152	2130	2114	2106	1656
55°	1627	1618	1588	1569	1567	1450
65°	1012	1008	992	968	963	999
75°	413	415	409	398	390	450
85°	62	61	62	61	58	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2918.5	2918.5	2918.5	2918.5	2918.5
2.5°	2919.3	2919.3	2917.6	2915.1	2921.0
5°	2915.1	2915.9	2914.2	2911.7	2915.9
7.5°	2909.1	2910.0	2907.4	2904.9	2908.3
10°	2899.8	2898.9	2896.4	2894.7	2898.9
12.5°	2886.2	2885.4	2882.8	2881.1	2884.5
15°	2869.2	2869.2	2865.0	2862.4	2863.3
17.5°	2848.9	2848.9	2842.9	2837.0	2838.7
20°	2825.1	2824.3	2815.8	2809.8	2809.0
22.5°	2795.4	2795.4	2783.5	2775.9	2773.3
25°	2758.9	2758.1	2744.5	2733.5	2731.8
27.5°	2717.3	2715.6	2699.5	2688.5	2684.2
30°	2665.6	2663.9	2646.9	2635.0	2629.9
32.5°	2604.5	2607.0	2587.5	2573.9	2568.8
35°	2534.9	2534.9	2519.6	2505.2	2496.7
37.5°	2455.1	2455.1	2440.7	2426.2	2416.1
40°	2364.3	2365.1	2349.9	2332.0	2323.6
42.5°	2262.5	2264.2	2243.8	2229.4	2220.0
45°	2151.3	2152.1	2130.1	2113.9	2106.3
47.5°	2030.8	2029.1	2004.5	1990.9	1983.3
50°	1901.8	1898.4	1871.2	1858.5	1851.7
52.5°	1766.9	1760.1	1736.3	1717.6	1711.7
55°	1626.8	1617.5	1587.8	1569.1	1567.4
57.5°	1480.9	1469.8	1445.2	1427.4	1420.6
60°	1321.3	1318.8	1298.4	1277.2	1272.1
62.5°	1172.0	1164.3	1146.5	1121.0	1118.5
65°	1012.4	1008.2	992.1	968.3	963.2
67.5°	847.8	852.0	838.5	817.2	810.4
70°	699.3	701.8	686.5	667.0	664.5
72.5°	549.9	554.2	541.4	528.7	526.2
75°	413.3	415.0	409.0	398.0	389.5
77.5°	293.6	299.6	292.8	285.1	278.4
80°	204.5	195.2	196.0	192.6	185.0
82.5°	123.1	118.8	118.0	114.6	111.2
85°	62.0	61.1	62.0	61.1	57.7
87.5°	20.4	22.1	22.9	22.9	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)