

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: P412597

Luminaire Tested: **24PD-90-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

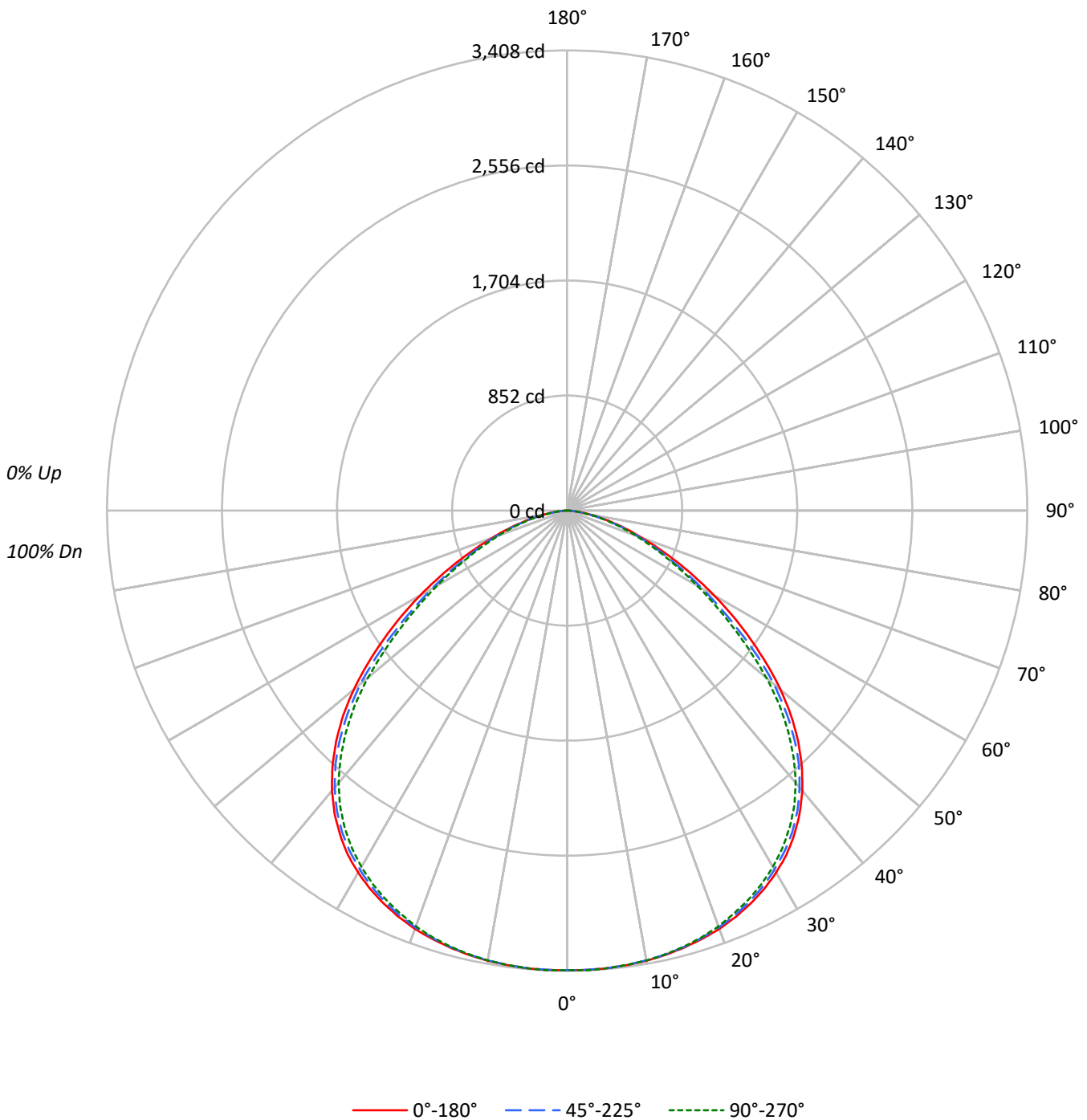
Test Method: LM-79-08  
Report Number: P412597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-90-PB1-L835  
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9056.0 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 68.7  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4579	4579	4579
5°	4594	4594	4594
10°	4625	4620	4621
15°	4667	4660	4657
20°	4719	4704	4691
25°	4769	4745	4718
30°	4810	4770	4734
35°	4815	4774	4715
40°	4759	4704	4625
45°	4605	4521	4404
50°	4318	4184	4031
55°	3881	3650	3500
60°	3379	3109	2990
65°	2843	2631	2516
70°	2317	2200	2111
75°	1857	1791	1716
80°	1426	1314	1279
85°	891	863	863



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.0	3.6
10°-20°	945.8	10.4
20°-30°	1473.4	16.3
30°-40°	1812.6	20.0
40°-50°	1820.6	20.1
50°-60°	1403.2	15.5
60°-70°	833.0	9.2
70°-80°	370.9	4.1
80°-90°	72.4	0.8
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°	2743.2	30.3
0°-40°	4555.8	50.3
0°-60°	7779.6	85.9
0°-90°	9056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9056.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3403	3403	3403	3403	3403	
5°	3402	3402	3402	3398	3402	324
15°	3350	3350	3346	3340	3343	947
25°	3212	3211	3196	3182	3178	1481
35°	2932	2927	2906	2882	2870	1831
45°	2420	2414	2376	2336	2315	1858
55°	1654	1623	1556	1509	1492	1479
65°	893	854	826	795	790	892
75°	357	350	345	333	330	387
85°	58	55	56	53	56	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3403.4	3403.4	3403.4	3403.4	3403.4
2.5°	3405.2	3404.3	3404.3	3400.7	3407.9
5°	3401.6	3402.5	3401.6	3397.9	3401.6
7.5°	3394.3	3395.2	3393.4	3389.8	3393.4
10°	3385.3	3385.3	3381.7	3379.9	3382.6
12.5°	3370.0	3370.0	3366.4	3363.7	3366.4
15°	3350.1	3350.1	3345.6	3340.2	3342.9
17.5°	3325.8	3325.8	3318.6	3311.4	3313.2
20°	3296.0	3295.1	3285.2	3275.3	3276.2
22.5°	3258.1	3257.2	3244.6	3232.9	3229.3
25°	3212.1	3211.2	3195.9	3181.5	3177.9
27.5°	3158.9	3155.3	3138.2	3121.9	3118.3
30°	3095.8	3093.1	3070.5	3054.3	3047.1
32.5°	3022.7	3015.5	2994.7	2974.9	2965.0
35°	2931.6	2927.1	2906.3	2882.0	2870.3
37.5°	2828.8	2824.3	2801.7	2774.6	2761.1
40°	2709.7	2706.1	2678.1	2650.2	2633.0
42.5°	2572.6	2569.9	2540.1	2501.3	2483.3
45°	2420.1	2413.8	2375.9	2336.3	2314.6
47.5°	2250.6	2239.7	2193.7	2155.9	2132.4
50°	2062.9	2048.5	1998.9	1950.2	1925.8
52.5°	1860.0	1834.7	1783.3	1727.4	1703.9
55°	1654.3	1622.8	1556.0	1509.1	1492.0
57.5°	1453.2	1407.2	1344.0	1310.7	1293.5
60°	1255.6	1205.1	1155.5	1123.0	1111.3
62.5°	1067.1	1024.7	982.3	949.8	942.6
65°	893.0	854.2	826.3	794.7	790.2
67.5°	730.6	712.6	687.3	660.3	656.7
70°	589.0	581.8	559.3	543.0	536.7
72.5°	470.0	462.7	446.5	434.8	433.0
75°	357.2	350.0	344.6	332.8	330.1
77.5°	254.4	255.3	250.8	244.5	246.3
80°	184.0	173.2	169.6	166.0	165.1
82.5°	112.8	106.4	103.7	102.8	104.6
85°	57.7	55.0	55.9	53.2	55.9
87.5°	19.8	19.8	20.7	19.8	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)