

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: P412561

Luminaire Tested: **24PD-70-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

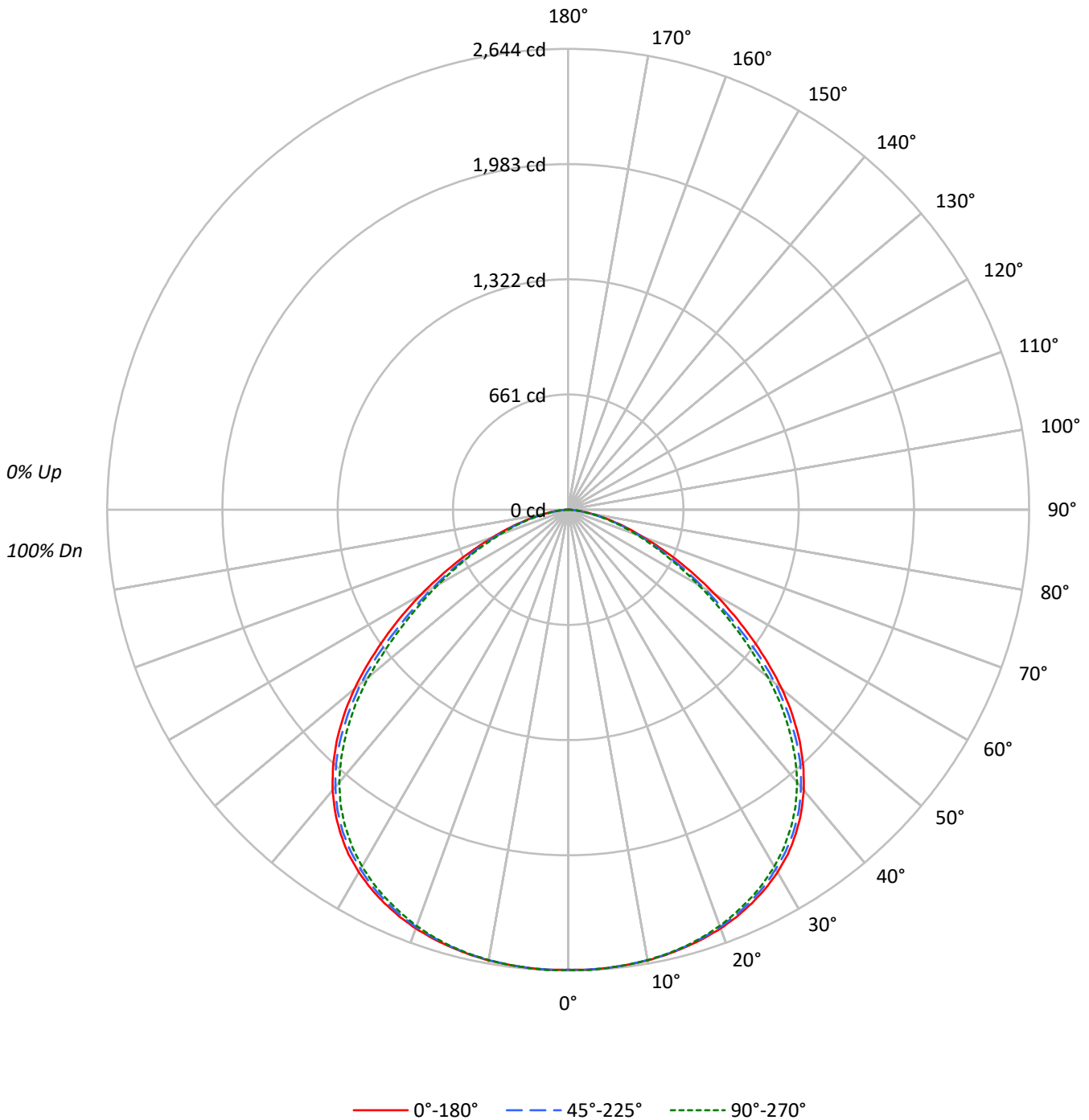
Test Method: LM-79-08  
Report Number: P412561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-70-PB1-L835  
Description: 7000 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: 7025.0 lumens  
Efficiency: N/A  
Efficacy: 134.3 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): 52.3  
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	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					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°	3552	3552	3552
5°	3564	3564	3564
10°	3588	3584	3585
15°	3620	3615	3612
20°	3661	3649	3639
25°	3699	3680	3660
30°	3731	3701	3672
35°	3735	3703	3657
40°	3692	3649	3587
45°	3572	3507	3416
50°	3350	3246	3127
55°	3010	2831	2715
60°	2621	2412	2320
65°	2205	2041	1952
70°	1797	1707	1638
75°	1441	1390	1331
80°	1106	1019	993
85°	692	670	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	3.6
10°-20°	733.7	10.4
20°-30°	1143.0	16.3
30°-40°	1406.1	20.0
40°-50°	1412.3	20.1
50°-60°	1088.5	15.5
60°-70°	646.2	9.2
70°-80°	287.7	4.1
80°-90°	56.2	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°	2128.0	30.3
0°-40°	3534.1	50.3
0°-60°	6034.9	85.9
0°-90°	7025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2640	2640	2640	2640	2640	
5°	2639	2639	2639	2636	2639	251
15°	2599	2599	2595	2591	2593	735
25°	2492	2491	2479	2468	2465	1149
35°	2274	2271	2254	2236	2226	1420
45°	1877	1872	1843	1812	1796	1441
55°	1283	1259	1207	1171	1157	1148
65°	693	663	641	616	613	692
75°	277	272	267	258	256	300
85°	45	43	43	41	43	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2640.1	2640.1	2640.1	2640.1	2640.1
2.5°	2641.5	2640.8	2640.8	2638.0	2643.6
5°	2638.7	2639.4	2638.7	2635.9	2638.7
7.5°	2633.1	2633.8	2632.4	2629.6	2632.4
10°	2626.1	2626.1	2623.3	2621.9	2624.0
12.5°	2614.2	2614.2	2611.4	2609.3	2611.4
15°	2598.8	2598.8	2595.3	2591.1	2593.2
17.5°	2579.9	2579.9	2574.3	2568.7	2570.1
20°	2556.8	2556.1	2548.4	2540.7	2541.4
22.5°	2527.4	2526.7	2516.9	2507.8	2505.0
25°	2491.7	2491.0	2479.1	2468.0	2465.2
27.5°	2450.5	2447.7	2434.4	2421.8	2419.0
30°	2401.5	2399.4	2381.9	2369.3	2363.7
32.5°	2344.8	2339.2	2323.1	2307.7	2300.0
35°	2274.1	2270.6	2254.5	2235.6	2226.5
37.5°	2194.4	2190.9	2173.4	2152.4	2141.9
40°	2102.0	2099.2	2077.5	2055.8	2042.5
42.5°	1995.6	1993.5	1970.4	1940.4	1926.4
45°	1877.4	1872.5	1843.1	1812.3	1795.5
47.5°	1745.8	1737.4	1701.7	1672.4	1654.2
50°	1600.3	1589.1	1550.6	1512.8	1493.9
52.5°	1442.8	1423.3	1383.4	1340.0	1321.8
55°	1283.3	1258.8	1207.0	1170.6	1157.4
57.5°	1127.3	1091.6	1042.6	1016.7	1003.4
60°	974.0	934.8	896.4	871.2	862.1
62.5°	827.8	794.9	762.0	736.8	731.2
65°	692.7	662.6	641.0	616.5	613.0
67.5°	566.8	552.8	533.2	512.2	509.4
70°	456.9	451.3	433.8	421.2	416.3
72.5°	364.6	359.0	346.4	337.3	335.9
75°	277.1	271.5	267.3	258.2	256.1
77.5°	197.3	198.0	194.5	189.6	191.0
80°	142.7	134.3	131.5	128.8	128.1
82.5°	87.5	82.6	80.5	79.8	81.2
85°	44.8	42.7	43.4	41.3	43.4
87.5°	15.4	15.4	16.1	15.4	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)