

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: P412526

Luminaire Tested: **24PD-50-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

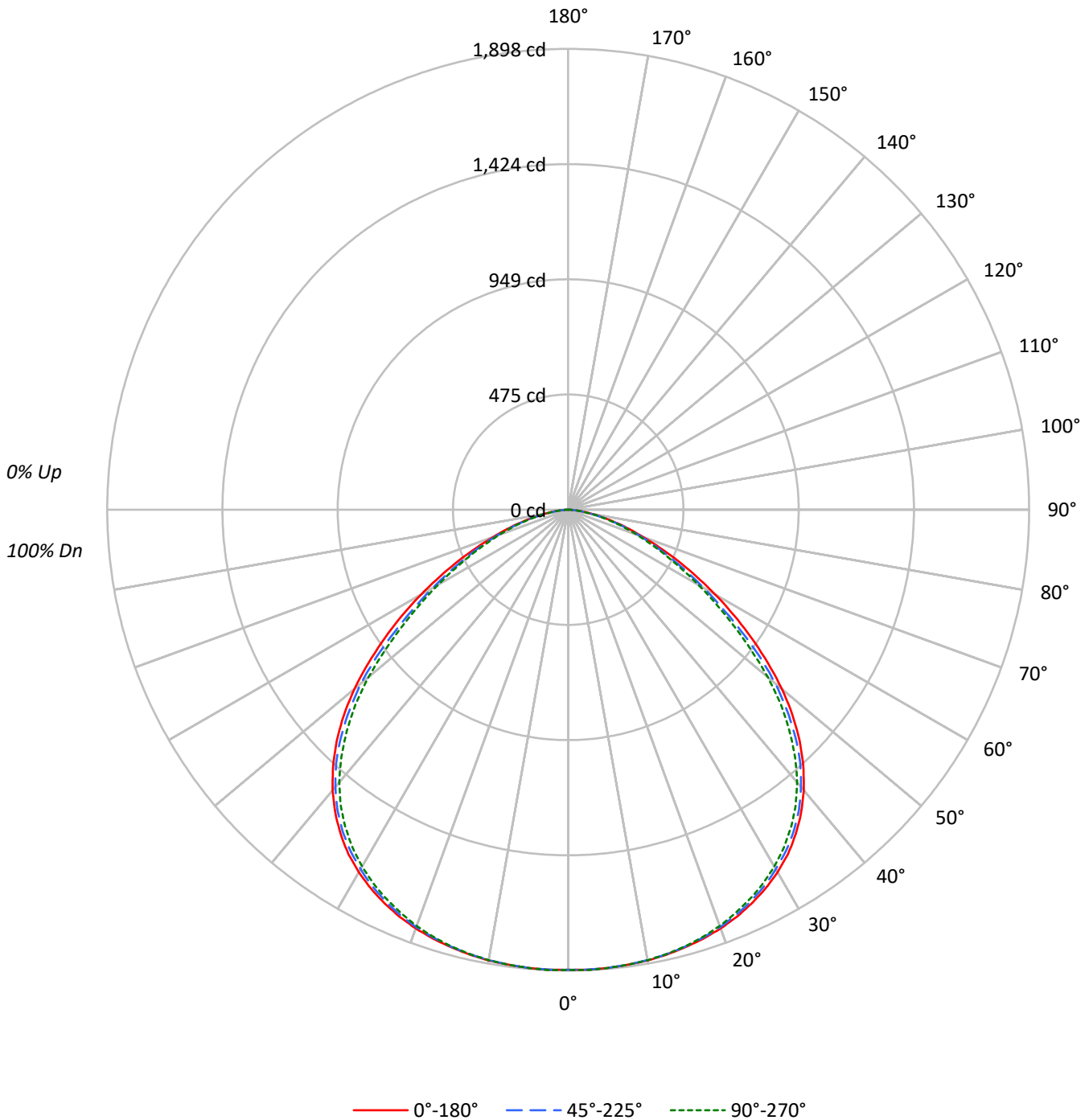
Test Method: LM-79-08  
Report Number: P412526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PB1-L840  
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5043.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 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): 37.5  
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°	2550	2550	2550
5°	2558	2558	2558
10°	2576	2573	2574
15°	2599	2595	2593
20°	2628	2619	2612
25°	2655	2642	2627
30°	2678	2657	2636
35°	2681	2658	2625
40°	2650	2620	2575
45°	2564	2518	2453
50°	2405	2330	2245
55°	2161	2033	1949
60°	1882	1732	1665
65°	1583	1465	1401
70°	1290	1225	1176
75°	1034	998	955
80°	794	731	712
85°	496	480	480



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	3.6
10°-20°	526.7	10.4
20°-30°	820.5	16.3
30°-40°	1009.4	20.0
40°-50°	1013.9	20.1
50°-60°	781.4	15.5
60°-70°	463.9	9.2
70°-80°	206.5	4.1
80°-90°	40.3	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°	1527.6	30.3
0°-40°	2537.0	50.3
0°-60°	4332.2	85.9
0°-90°	5043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1894	1895	1894	1892	1894	181
15°	1866	1866	1863	1860	1862	528
25°	1789	1788	1780	1772	1770	825
35°	1632	1630	1618	1605	1598	1019
45°	1348	1344	1323	1301	1289	1034
55°	921	904	866	840	831	824
65°	497	476	460	442	440	497
75°	199	195	192	185	184	215
85°	32	31	31	30	31	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1895.2	1895.2	1895.2	1895.2	1895.2
2.5°	1896.2	1895.7	1895.7	1893.7	1897.7
5°	1894.2	1894.7	1894.2	1892.2	1894.2
7.5°	1890.2	1890.7	1889.7	1887.7	1889.7
10°	1885.2	1885.2	1883.2	1882.2	1883.7
12.5°	1876.6	1876.6	1874.6	1873.1	1874.6
15°	1865.6	1865.6	1863.1	1860.1	1861.6
17.5°	1852.0	1852.0	1848.0	1844.0	1845.0
20°	1835.4	1834.9	1829.4	1823.9	1824.4
22.5°	1814.4	1813.8	1806.8	1800.3	1798.3
25°	1788.7	1788.2	1779.7	1771.7	1769.6
27.5°	1759.1	1757.1	1747.5	1738.5	1736.5
30°	1723.9	1722.4	1709.9	1700.8	1696.8
32.5°	1683.2	1679.2	1667.7	1656.6	1651.1
35°	1632.5	1630.0	1618.4	1604.9	1598.4
37.5°	1575.3	1572.7	1560.2	1545.1	1537.6
40°	1508.9	1506.9	1491.4	1475.8	1466.2
42.5°	1432.6	1431.1	1414.5	1392.9	1382.9
45°	1347.7	1344.2	1323.1	1301.0	1288.9
47.5°	1253.3	1247.2	1221.6	1200.5	1187.5
50°	1148.8	1140.8	1113.1	1086.0	1072.4
52.5°	1035.8	1021.7	993.1	961.9	948.9
55°	921.2	903.7	866.5	840.4	830.8
57.5°	809.2	783.6	748.4	729.9	720.3
60°	699.2	671.1	643.5	625.4	618.8
62.5°	594.2	570.6	547.0	528.9	524.9
65°	497.3	475.7	460.1	442.5	440.0
67.5°	406.9	396.8	382.8	367.7	365.7
70°	328.0	324.0	311.4	302.4	298.9
72.5°	261.7	257.7	248.6	242.1	241.1
75°	198.9	194.9	191.9	185.4	183.8
77.5°	141.7	142.2	139.6	136.1	137.1
80°	102.5	96.4	94.4	92.4	91.9
82.5°	62.8	59.3	57.8	57.3	58.3
85°	32.1	30.6	31.1	29.6	31.1
87.5°	11.1	11.1	11.6	11.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)