

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: P412525

Luminaire Tested: **24PD-50-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

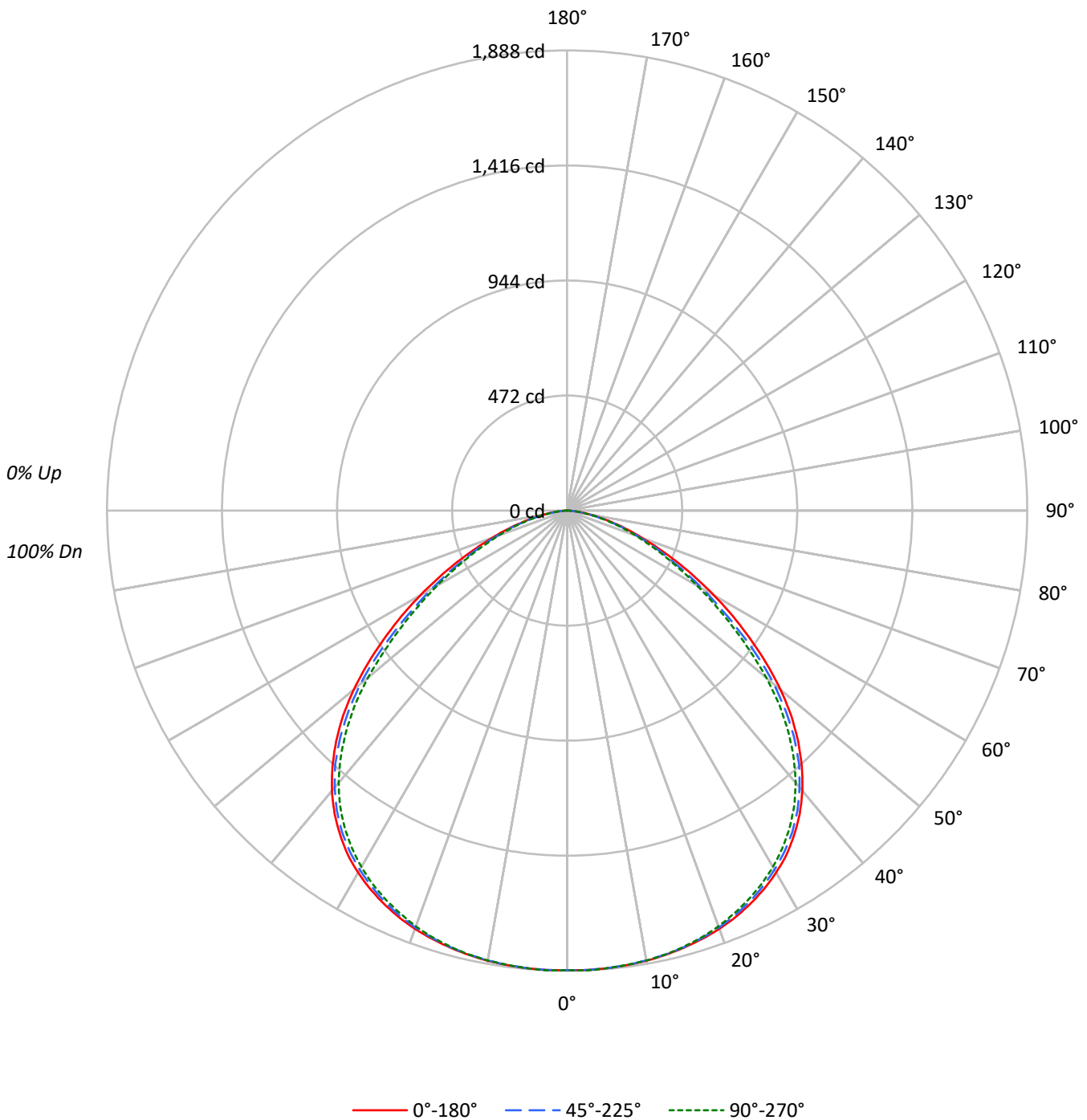
Test Method: LM-79-08  
Report Number: P412525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PB1-L835  
Description: 5000 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: 5018.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 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): 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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27					27			

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

	0°	45°	90°
0°	2537	2537	2537
5°	2546	2546	2546
10°	2563	2560	2561
15°	2586	2582	2580
20°	2615	2607	2599
25°	2642	2629	2614
30°	2665	2643	2623
35°	2668	2645	2612
40°	2637	2607	2563
45°	2552	2505	2440
50°	2393	2318	2234
55°	2150	2023	1939
60°	1872	1723	1657
65°	1575	1457	1394
70°	1284	1219	1170
75°	1029	992	951
80°	790	728	709
85°	494	479	479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.5	3.6
10°-20°	524.1	10.4
20°-30°	816.4	16.3
30°-40°	1004.4	20.0
40°-50°	1008.8	20.1
50°-60°	777.5	15.5
60°-70°	461.6	9.2
70°-80°	205.5	4.1
80°-90°	40.1	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°	1520.0	30.3
0°-40°	2524.4	50.3
0°-60°	4310.8	85.9
0°-90°	5018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1885	1885	1885	1883	1885	180
15°	1856	1856	1854	1851	1852	525
25°	1780	1779	1771	1763	1761	821
35°	1624	1622	1610	1597	1590	1014
45°	1341	1338	1316	1294	1282	1029
55°	917	899	862	836	827	820
65°	495	473	458	440	438	494
75°	198	194	191	184	183	214
85°	32	30	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°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1886.8	1886.3	1886.3	1884.3	1888.3
5°	1884.8	1885.3	1884.8	1882.8	1884.8
7.5°	1880.8	1881.3	1880.3	1878.3	1880.3
10°	1875.8	1875.8	1873.8	1872.8	1874.3
12.5°	1867.3	1867.3	1865.3	1863.8	1865.3
15°	1856.3	1856.3	1853.8	1850.8	1852.3
17.5°	1842.8	1842.8	1838.8	1834.8	1835.8
20°	1826.3	1825.8	1820.4	1814.9	1815.4
22.5°	1805.4	1804.9	1797.9	1791.4	1789.4
25°	1779.9	1779.4	1770.9	1762.9	1760.9
27.5°	1750.4	1748.4	1738.9	1729.9	1727.9
30°	1715.4	1713.9	1701.4	1692.4	1688.4
32.5°	1674.9	1670.9	1659.4	1648.4	1642.9
35°	1624.4	1621.9	1610.4	1596.9	1590.4
37.5°	1567.4	1564.9	1552.4	1537.5	1530.0
40°	1501.5	1499.5	1484.0	1468.5	1459.0
42.5°	1425.5	1424.0	1407.5	1386.0	1376.0
45°	1341.0	1337.5	1316.5	1294.5	1282.5
47.5°	1247.1	1241.1	1215.6	1194.6	1181.6
50°	1143.1	1135.1	1107.6	1080.6	1067.1
52.5°	1030.6	1016.6	988.1	957.2	944.2
55°	916.7	899.2	862.2	836.2	826.7
57.5°	805.2	779.7	744.7	726.2	716.7
60°	695.8	667.8	640.3	622.3	615.8
62.5°	591.3	567.8	544.3	526.3	522.3
65°	494.8	473.3	457.8	440.3	437.8
67.5°	404.9	394.9	380.9	365.9	363.9
70°	326.4	322.4	309.9	300.9	297.4
72.5°	260.4	256.4	247.4	240.9	239.9
75°	197.9	193.9	190.9	184.4	182.9
77.5°	140.9	141.4	139.0	135.5	136.5
80°	102.0	96.0	94.0	92.0	91.5
82.5°	62.5	59.0	57.5	57.0	58.0
85°	32.0	30.5	31.0	29.5	31.0
87.5°	11.0	11.0	11.5	11.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)