

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: P412498

Luminaire Tested: **24PD-35-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

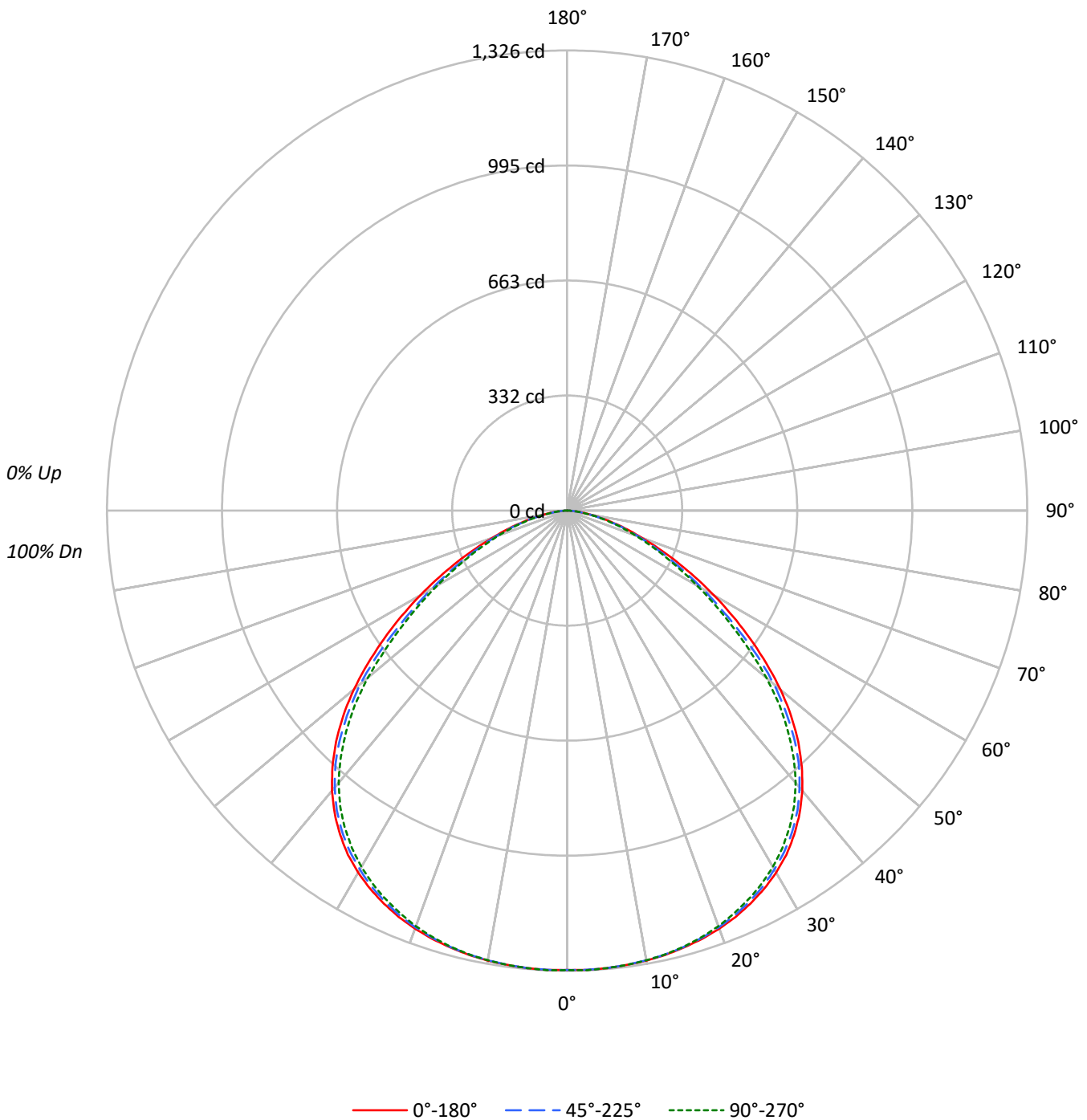
Test Method: LM-79-08  
Report Number: P412498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PB1-L835  
Description: 3500 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: 3523.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 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): 25.8  
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°	1781	1781	1781
5°	1787	1787	1787
10°	1799	1797	1798
15°	1815	1813	1812
20°	1836	1830	1825
25°	1855	1846	1835
30°	1871	1856	1842
35°	1873	1857	1834
40°	1851	1830	1799
45°	1791	1759	1713
50°	1680	1628	1568
55°	1510	1420	1361
60°	1315	1210	1163
65°	1106	1023	979
70°	901	856	821
75°	723	697	667
80°	555	511	497
85°	347	337	337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	3.6
10°-20°	367.9	10.4
20°-30°	573.2	16.3
30°-40°	705.1	20.0
40°-50°	708.3	20.1
50°-60°	545.9	15.5
60°-70°	324.1	9.2
70°-80°	144.3	4.1
80°-90°	28.2	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°	1067.2	30.3
0°-40°	1772.3	50.3
0°-60°	3026.5	85.9
0°-90°	3523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3523.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1323	1324	1323	1322	1323	126
15°	1303	1303	1302	1299	1300	369
25°	1250	1249	1243	1238	1236	576
35°	1140	1139	1131	1121	1117	712
45°	942	939	924	909	900	723
55°	644	631	605	587	580	576
65°	347	332	321	309	307	347
75°	139	136	134	130	128	150
85°	22	21	22	21	22	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1324.7	1324.3	1324.3	1322.9	1325.7
5°	1323.3	1323.6	1323.3	1321.9	1323.3
7.5°	1320.5	1320.8	1320.1	1318.7	1320.1
10°	1317.0	1317.0	1315.6	1314.9	1315.9
12.5°	1311.0	1311.0	1309.6	1308.5	1309.6
15°	1303.3	1303.3	1301.5	1299.4	1300.5
17.5°	1293.8	1293.8	1291.0	1288.2	1288.9
20°	1282.2	1281.9	1278.0	1274.2	1274.5
22.5°	1267.5	1267.1	1262.2	1257.7	1256.3
25°	1249.6	1249.2	1243.3	1237.7	1236.3
27.5°	1228.9	1227.5	1220.8	1214.5	1213.1
30°	1204.3	1203.3	1194.5	1188.2	1185.4
32.5°	1175.9	1173.1	1165.0	1157.3	1153.4
35°	1140.5	1138.7	1130.6	1121.2	1116.6
37.5°	1100.5	1098.7	1089.9	1079.4	1074.1
40°	1054.1	1052.7	1041.9	1031.0	1024.3
42.5°	1000.8	999.7	988.2	973.1	966.1
45°	941.5	939.0	924.3	908.9	900.4
47.5°	875.5	871.3	853.4	838.7	829.6
50°	802.5	796.9	777.6	758.7	749.2
52.5°	723.6	713.8	693.8	672.0	662.9
55°	643.6	631.3	605.3	587.1	580.4
57.5°	565.3	547.4	522.9	509.9	503.2
60°	488.5	468.8	449.5	436.9	432.3
62.5°	415.1	398.6	382.1	369.5	366.7
65°	347.4	332.3	321.4	309.2	307.4
67.5°	284.2	277.2	267.4	256.9	255.5
70°	229.1	226.3	217.6	211.2	208.8
72.5°	182.8	180.0	173.7	169.1	168.4
75°	139.0	136.2	134.0	129.5	128.4
77.5°	99.0	99.3	97.6	95.1	95.8
80°	71.6	67.4	66.0	64.6	64.2
82.5°	43.9	41.4	40.4	40.0	40.7
85°	22.5	21.4	21.8	20.7	21.8
87.5°	7.7	7.7	8.1	7.7	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)