

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: P412858

Luminaire Tested: **24PD-45-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

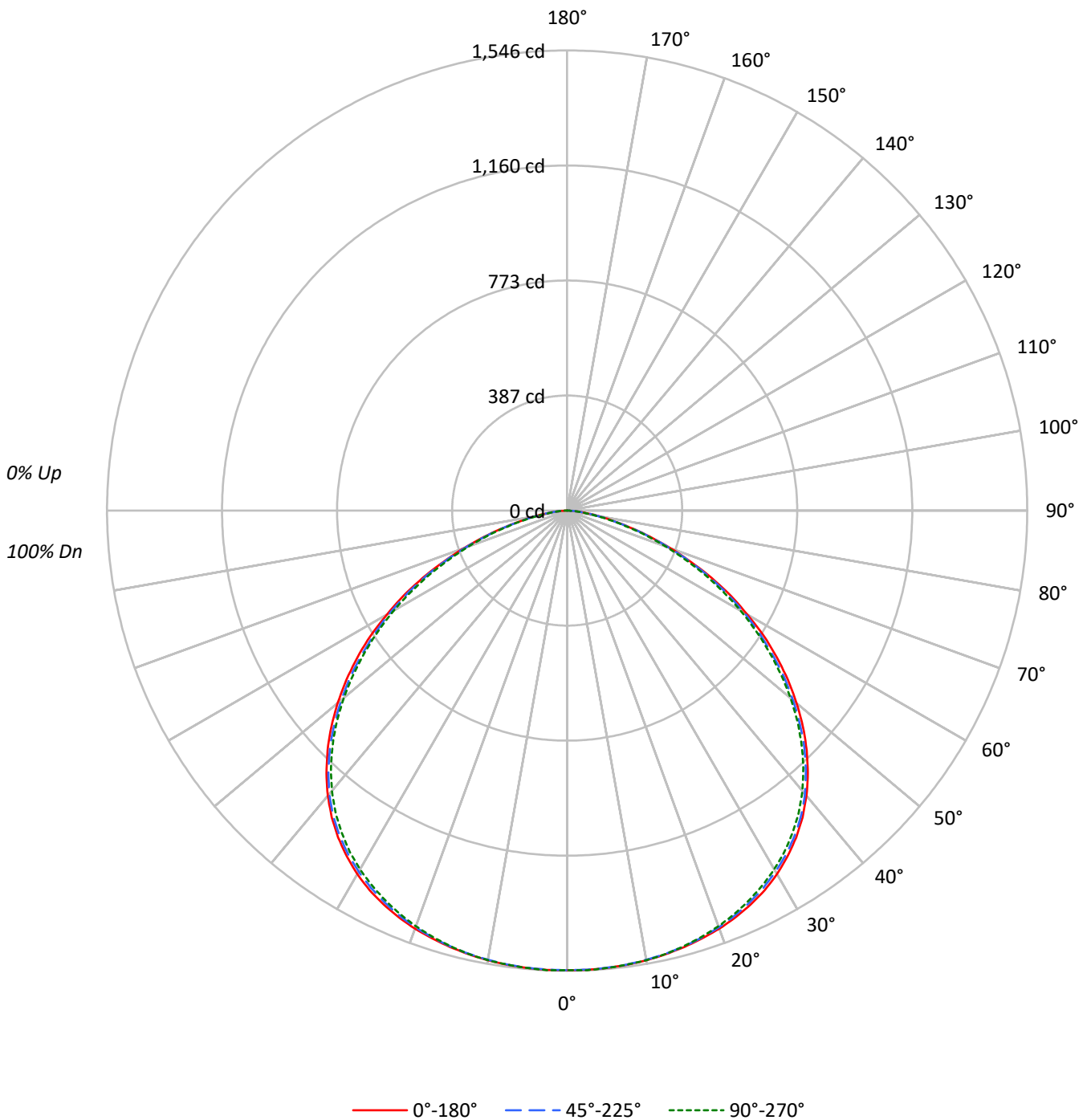
Test Method: LM-79-08  
Report Number: P412858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-45-PP3-L835  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4493.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	2078	2078	2078
5°	2083	2083	2084
10°	2096	2094	2096
15°	2115	2111	2110
20°	2140	2133	2128
25°	2167	2156	2146
30°	2191	2176	2162
35°	2203	2190	2170
40°	2197	2184	2159
45°	2166	2144	2120
50°	2106	2072	2051
55°	2019	1971	1945
60°	1881	1849	1811
65°	1706	1671	1622
70°	1456	1429	1383
75°	1137	1125	1071
80°	838	804	759
85°	506	506	471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	3.3
10°-20°	428.7	9.5
20°-30°	670.0	14.9
30°-40°	832.7	18.5
40°-50°	867.6	19.3
50°-60°	752.9	16.8
60°-70°	517.7	11.5
70°-80°	233.6	5.2
80°-90°	42.8	1.0
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°	1245.6	27.7
0°-40°	2078.4	46.3
0°-60°	3698.9	82.3
0°-90°	4493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4493.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1542	1543	1542	1540	1543	147
15°	1518	1518	1516	1514	1515	429
25°	1460	1459	1452	1446	1445	673
35°	1341	1341	1333	1325	1321	838
45°	1138	1139	1127	1118	1114	876
55°	861	856	840	830	829	767
65°	536	533	525	512	510	529
75°	219	220	216	211	206	238
85°	33	32	33	32	30	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1544.1	1544.1	1544.1	1544.1	1544.1
2.5°	1544.6	1544.6	1543.7	1542.3	1545.5
5°	1542.3	1542.8	1541.9	1540.5	1542.8
7.5°	1539.2	1539.6	1538.3	1536.9	1538.7
10°	1534.2	1533.8	1532.4	1531.5	1533.8
12.5°	1527.1	1526.6	1525.3	1524.4	1526.2
15°	1518.1	1518.1	1515.8	1514.5	1514.9
17.5°	1507.3	1507.3	1504.2	1501.0	1501.9
20°	1494.7	1494.3	1489.8	1486.6	1486.2
22.5°	1479.0	1479.0	1472.7	1468.7	1467.3
25°	1459.7	1459.3	1452.1	1446.2	1445.3
27.5°	1437.7	1436.8	1428.3	1422.4	1420.2
30°	1410.3	1409.4	1400.4	1394.1	1391.5
32.5°	1378.0	1379.3	1369.0	1361.8	1359.1
35°	1341.2	1341.2	1333.1	1325.4	1321.0
37.5°	1299.0	1299.0	1291.3	1283.7	1278.3
40°	1250.9	1251.4	1243.3	1233.9	1229.4
42.5°	1197.0	1197.9	1187.2	1179.5	1174.6
45°	1138.2	1138.7	1127.0	1118.5	1114.4
47.5°	1074.5	1073.6	1060.5	1053.4	1049.3
50°	1006.2	1004.4	990.0	983.3	979.7
52.5°	934.8	931.2	918.7	908.8	905.6
55°	860.7	855.8	840.1	830.2	829.3
57.5°	783.5	777.7	764.6	755.2	751.6
60°	699.1	697.7	687.0	675.7	673.1
62.5°	620.1	616.0	606.6	593.1	591.8
65°	535.7	533.4	524.9	512.3	509.6
67.5°	448.6	450.8	443.6	432.4	428.8
70°	370.0	371.3	363.2	352.9	351.6
72.5°	291.0	293.2	286.5	279.7	278.4
75°	218.7	219.6	216.4	210.6	206.1
77.5°	155.4	158.5	154.9	150.9	147.3
80°	108.2	103.3	103.7	101.9	97.9
82.5°	65.1	62.9	62.4	60.6	58.8
85°	32.8	32.3	32.8	32.3	30.5
87.5°	10.8	11.7	12.1	12.1	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)