

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: P412534

Luminaire Tested: **24PD-55-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

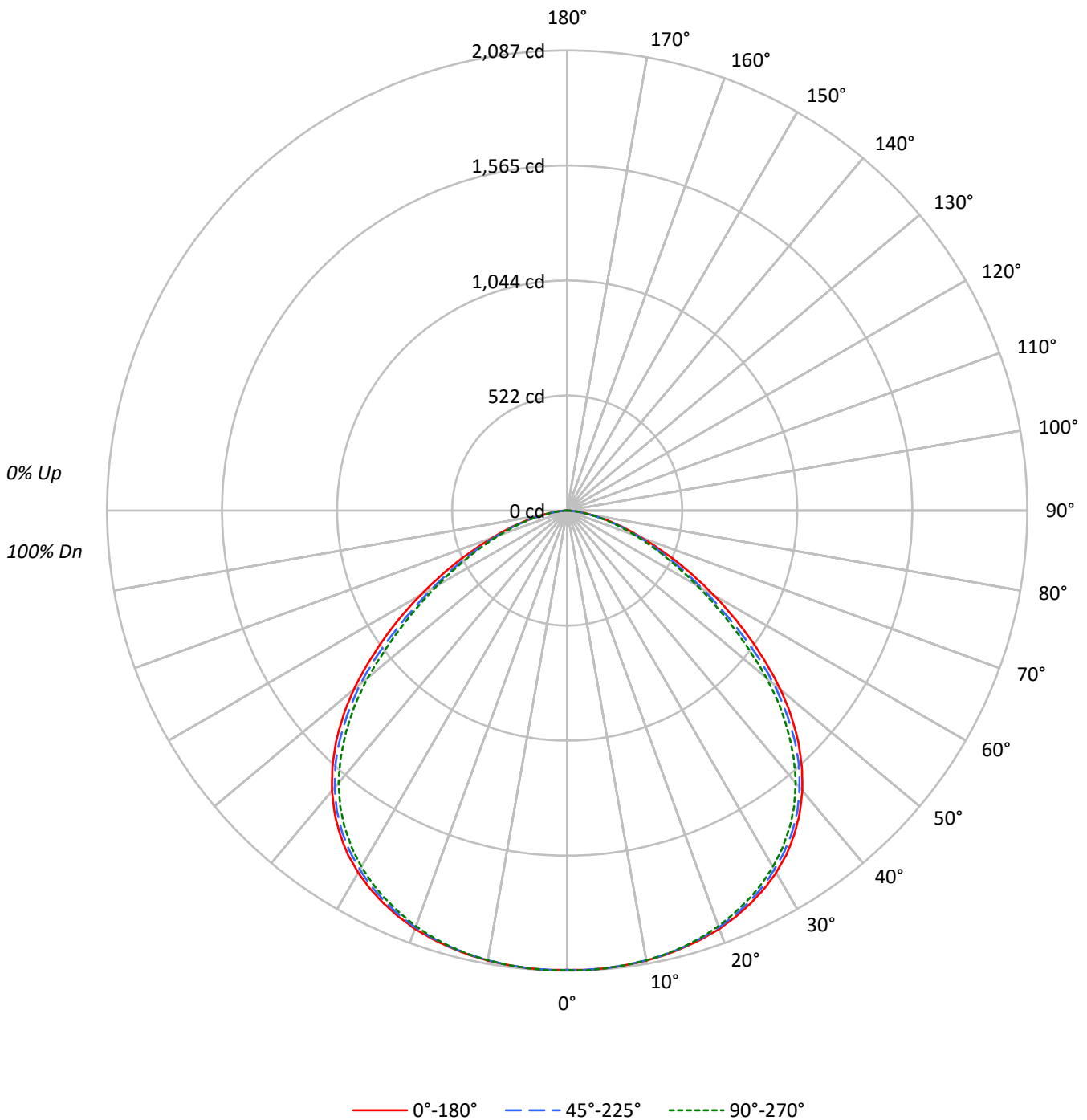
Test Method: LM-79-08  
Report Number: P412534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PB1-L835  
Description: 5500 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: 5545.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 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): 41.7  
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°	2804	2804	2804
5°	2813	2813	2813
10°	2832	2829	2830
15°	2857	2853	2851
20°	2890	2880	2872
25°	2920	2905	2889
30°	2945	2921	2899
35°	2948	2923	2887
40°	2914	2880	2832
45°	2820	2768	2697
50°	2644	2562	2468
55°	2376	2235	2143
60°	2069	1904	1831
65°	1741	1611	1540
70°	1419	1347	1293
75°	1137	1097	1051
80°	873	804	783
85°	545	528	528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	3.6
10°-20°	579.1	10.4
20°-30°	902.2	16.3
30°-40°	1109.8	20.0
40°-50°	1114.8	20.1
50°-60°	859.2	15.5
60°-70°	510.1	9.2
70°-80°	227.1	4.1
80°-90°	44.4	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°	1679.7	30.3
0°-40°	2789.5	50.3
0°-60°	4763.5	85.9
0°-90°	5545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2083	2083	2083	2081	2083	198
15°	2051	2051	2048	2045	2047	580
25°	1967	1966	1957	1948	1946	907
35°	1795	1792	1780	1765	1758	1121
45°	1482	1478	1455	1430	1417	1137
55°	1013	994	953	924	914	906
65°	547	523	506	487	484	546
75°	219	214	211	204	202	237
85°	35	34	34	33	34	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2083.9	2083.9	2083.9	2083.9	2083.9
2.5°	2085.0	2084.4	2084.4	2082.2	2086.6
5°	2082.8	2083.3	2082.8	2080.6	2082.8
7.5°	2078.4	2078.9	2077.8	2075.6	2077.8
10°	2072.8	2072.8	2070.6	2069.5	2071.2
12.5°	2063.4	2063.4	2061.2	2059.6	2061.2
15°	2051.3	2051.3	2048.5	2045.2	2046.9
17.5°	2036.4	2036.4	2032.0	2027.5	2028.7
20°	2018.2	2017.6	2011.5	2005.5	2006.0
22.5°	1995.0	1994.4	1986.7	1979.5	1977.3
25°	1966.8	1966.2	1956.8	1948.0	1945.8
27.5°	1934.2	1932.0	1921.5	1911.6	1909.4
30°	1895.5	1893.9	1880.1	1870.1	1865.7
32.5°	1850.8	1846.4	1833.7	1821.5	1815.5
35°	1795.0	1792.3	1779.6	1764.6	1757.5
37.5°	1732.1	1729.3	1715.5	1698.9	1690.6
40°	1659.2	1656.9	1639.8	1622.7	1612.2
42.5°	1575.2	1573.5	1555.3	1531.6	1520.5
45°	1481.9	1478.0	1454.8	1430.5	1417.2
47.5°	1378.0	1371.4	1343.2	1320.0	1305.7
50°	1263.1	1254.3	1223.9	1194.1	1179.2
52.5°	1138.9	1123.4	1091.9	1057.7	1043.3
55°	1012.9	993.6	952.7	924.0	913.5
57.5°	889.8	861.6	822.9	802.5	792.0
60°	768.8	737.9	707.5	687.6	680.5
62.5°	653.4	627.4	601.5	581.6	577.2
65°	546.8	523.0	505.9	486.6	483.8
67.5°	447.4	436.3	420.9	404.3	402.1
70°	360.7	356.2	342.4	332.5	328.6
72.5°	287.8	283.3	273.4	266.2	265.1
75°	218.7	214.3	211.0	203.8	202.1
77.5°	155.8	156.3	153.5	149.7	150.8
80°	112.7	106.0	103.8	101.6	101.1
82.5°	69.0	65.2	63.5	63.0	64.1
85°	35.3	33.7	34.2	32.6	34.2
87.5°	12.2	12.2	12.7	12.2	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)