

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: P412558

Luminaire Tested: **24PD-65-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

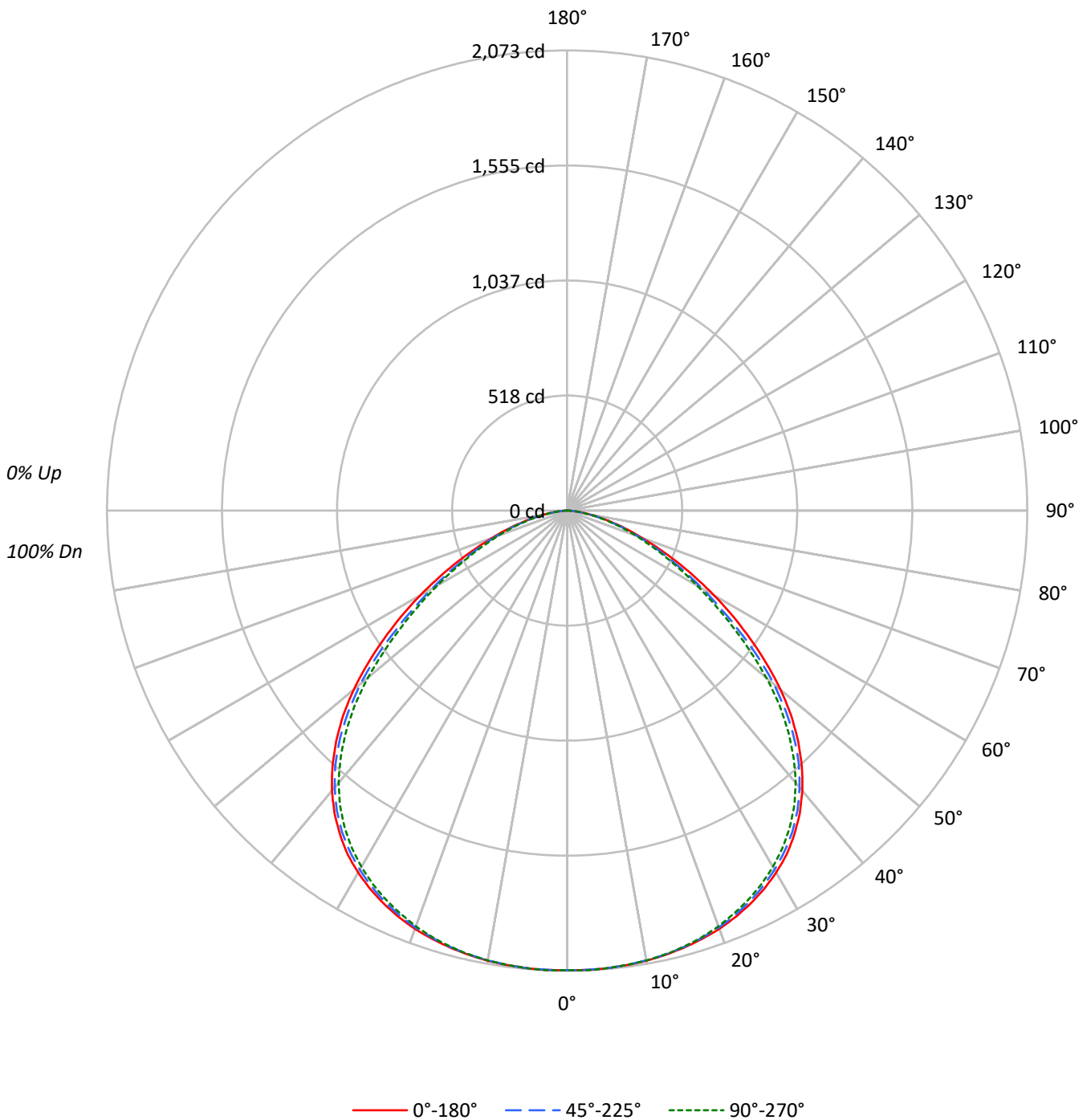
Test Method: LM-79-08  
Report Number: P412558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PB1-L940  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5509.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 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): 49.7  
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°	2786	2786	2786
5°	2795	2795	2795
10°	2814	2811	2811
15°	2839	2835	2833
20°	2871	2862	2854
25°	2901	2886	2870
30°	2926	2902	2880
35°	2929	2904	2868
40°	2895	2862	2813
45°	2801	2750	2679
50°	2627	2545	2452
55°	2361	2221	2129
60°	2055	1891	1819
65°	1729	1600	1530
70°	1410	1338	1284
75°	1130	1090	1044
80°	867	800	778
85°	542	525	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	3.6
10°-20°	575.3	10.4
20°-30°	896.3	16.3
30°-40°	1102.6	20.0
40°-50°	1107.5	20.1
50°-60°	853.6	15.5
60°-70°	506.8	9.2
70°-80°	225.6	4.1
80°-90°	44.1	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°	1668.8	30.3
0°-40°	2771.4	50.3
0°-60°	4732.6	85.9
0°-90°	5509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2069	2070	2069	2067	2069	197
15°	2038	2038	2035	2032	2034	576
25°	1954	1954	1944	1935	1933	901
35°	1783	1781	1768	1753	1746	1114
45°	1472	1468	1445	1421	1408	1130
55°	1006	987	947	918	908	900
65°	543	520	503	483	481	543
75°	217	213	210	202	201	235
85°	35	34	34	32	34	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2070.4	2070.4	2070.4	2070.4	2070.4
2.5°	2071.5	2070.9	2070.9	2068.7	2073.1
5°	2069.3	2069.8	2069.3	2067.1	2069.3
7.5°	2064.9	2065.4	2064.3	2062.1	2064.3
10°	2059.4	2059.4	2057.2	2056.1	2057.7
12.5°	2050.0	2050.0	2047.9	2046.2	2047.9
15°	2038.0	2038.0	2035.2	2031.9	2033.6
17.5°	2023.2	2023.2	2018.8	2014.4	2015.5
20°	2005.1	2004.5	1998.5	1992.4	1993.0
22.5°	1982.0	1981.5	1973.8	1966.6	1964.4
25°	1954.0	1953.5	1944.1	1935.4	1933.2
27.5°	1921.6	1919.5	1909.0	1899.1	1897.0
30°	1883.2	1881.6	1867.9	1858.0	1853.6
32.5°	1838.8	1834.4	1821.8	1809.7	1803.7
35°	1783.4	1780.6	1768.0	1753.2	1746.1
37.5°	1720.8	1718.1	1704.4	1687.9	1679.7
40°	1648.4	1646.2	1629.2	1612.2	1601.7
42.5°	1565.0	1563.3	1545.2	1521.6	1510.6
45°	1472.2	1468.4	1445.4	1421.2	1408.0
47.5°	1369.1	1362.5	1334.5	1311.5	1297.2
50°	1254.9	1246.2	1216.0	1186.4	1171.5
52.5°	1131.5	1116.1	1084.8	1050.8	1036.5
55°	1006.4	987.2	946.6	918.0	907.6
57.5°	884.0	856.0	817.6	797.3	786.9
60°	763.8	733.1	702.9	683.2	676.0
62.5°	649.1	623.4	597.6	577.8	573.4
65°	543.2	519.6	502.6	483.4	480.7
67.5°	444.5	433.5	418.1	401.7	399.5
70°	358.3	353.9	340.2	330.3	326.5
72.5°	285.9	281.5	271.6	264.5	263.4
75°	217.3	212.9	209.6	202.5	200.8
77.5°	154.7	155.3	152.5	148.7	149.8
80°	111.9	105.4	103.2	101.0	100.4
82.5°	68.6	64.7	63.1	62.6	63.7
85°	35.1	33.5	34.0	32.4	34.0
87.5°	12.1	12.1	12.6	12.1	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)