

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: P412893

Luminaire Tested: **24PD-65-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

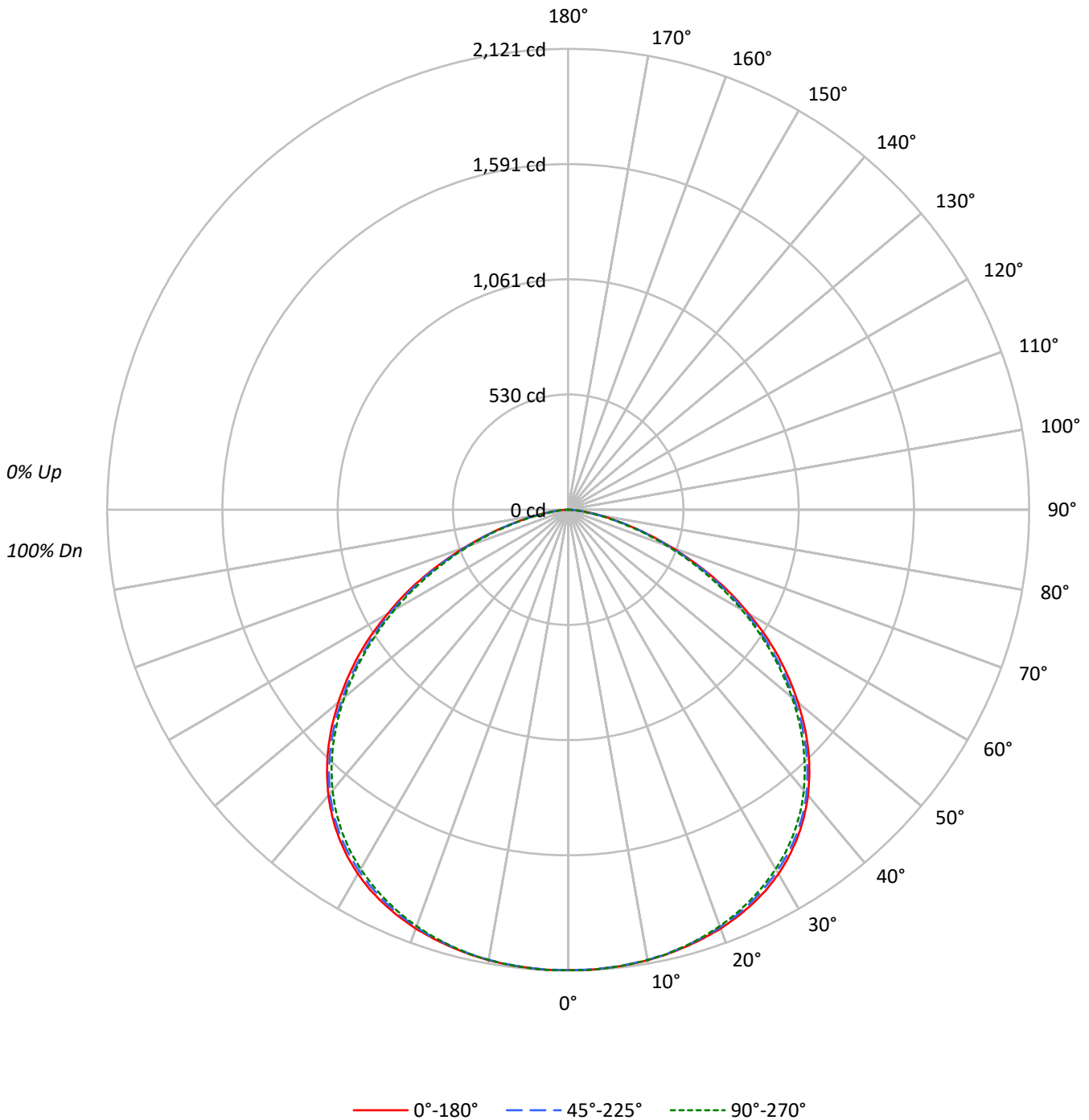
Test Method: LM-79-08  
Report Number: P412893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PP3-L830  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6166.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 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): 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	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°	2851	2851	2851
5°	2859	2858	2860
10°	2877	2873	2876
15°	2902	2898	2896
20°	2937	2927	2920
25°	2974	2958	2945
30°	3007	2986	2967
35°	3023	3005	2978
40°	3015	2997	2963
45°	2972	2943	2910
50°	2891	2844	2814
55°	2771	2704	2670
60°	2582	2537	2486
65°	2340	2293	2227
70°	1997	1961	1898
75°	1560	1544	1470
80°	1151	1103	1041
85°	695	695	647



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.6	3.3
10°-20°	588.3	9.5
20°-30°	919.5	14.9
30°-40°	1142.8	18.5
40°-50°	1190.7	19.3
50°-60°	1033.2	16.8
60°-70°	710.5	11.5
70°-80°	320.6	5.2
80°-90°	58.8	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°	1709.4	27.7
0°-40°	2852.3	46.3
0°-60°	5076.2	82.3
0°-90°	6166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6166.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2117	2117	2116	2114	2117	202
15°	2083	2083	2080	2078	2079	589
25°	2003	2003	1993	1985	1984	924
35°	1841	1841	1830	1819	1813	1150
45°	1562	1563	1547	1535	1529	1202
55°	1181	1174	1153	1139	1138	1053
65°	735	732	720	703	699	725
75°	300	301	297	289	283	327
85°	45	44	45	44	42	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2119.7	2119.7	2118.5	2116.6	2120.9
5°	2116.6	2117.2	2116.0	2114.1	2117.2
7.5°	2112.3	2112.9	2111.1	2109.2	2111.7
10°	2105.5	2104.9	2103.1	2101.8	2104.9
12.5°	2095.7	2095.0	2093.2	2092.0	2094.4
15°	2083.3	2083.3	2080.3	2078.4	2079.0
17.5°	2068.5	2068.5	2064.2	2059.9	2061.2
20°	2051.3	2050.7	2044.5	2040.2	2039.6
22.5°	2029.7	2029.7	2021.1	2015.6	2013.7
25°	2003.2	2002.6	1992.8	1984.7	1983.5
27.5°	1973.0	1971.8	1960.1	1952.1	1949.0
30°	1935.5	1934.2	1921.9	1913.3	1909.6
32.5°	1891.1	1892.9	1878.8	1868.9	1865.2
35°	1840.6	1840.6	1829.5	1819.0	1812.8
37.5°	1782.6	1782.6	1772.2	1761.7	1754.3
40°	1716.7	1717.3	1706.2	1693.3	1687.1
42.5°	1642.8	1644.0	1629.2	1618.7	1612.0
45°	1562.0	1562.7	1546.6	1534.9	1529.4
47.5°	1474.5	1473.3	1455.4	1445.6	1440.0
50°	1380.9	1378.4	1358.7	1349.5	1344.5
52.5°	1282.9	1278.0	1260.7	1247.2	1242.9
55°	1181.2	1174.5	1152.9	1139.3	1138.1
57.5°	1075.3	1067.2	1049.4	1036.4	1031.5
60°	959.4	957.6	942.8	927.4	923.7
62.5°	851.0	845.4	832.5	814.0	812.1
65°	735.1	732.0	720.3	703.1	699.4
67.5°	615.6	618.7	608.8	593.4	588.5
70°	507.7	509.6	498.5	484.3	482.5
72.5°	399.3	402.4	393.1	383.9	382.0
75°	300.1	301.3	297.0	289.0	282.8
77.5°	213.2	217.5	212.6	207.0	202.1
80°	148.5	141.7	142.3	139.9	134.3
82.5°	89.3	86.3	85.7	83.2	80.7
85°	45.0	44.4	45.0	44.4	41.9
87.5°	14.8	16.0	16.6	16.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)