

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: P412533

Luminaire Tested: **24PD-55-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412533
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-L830
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

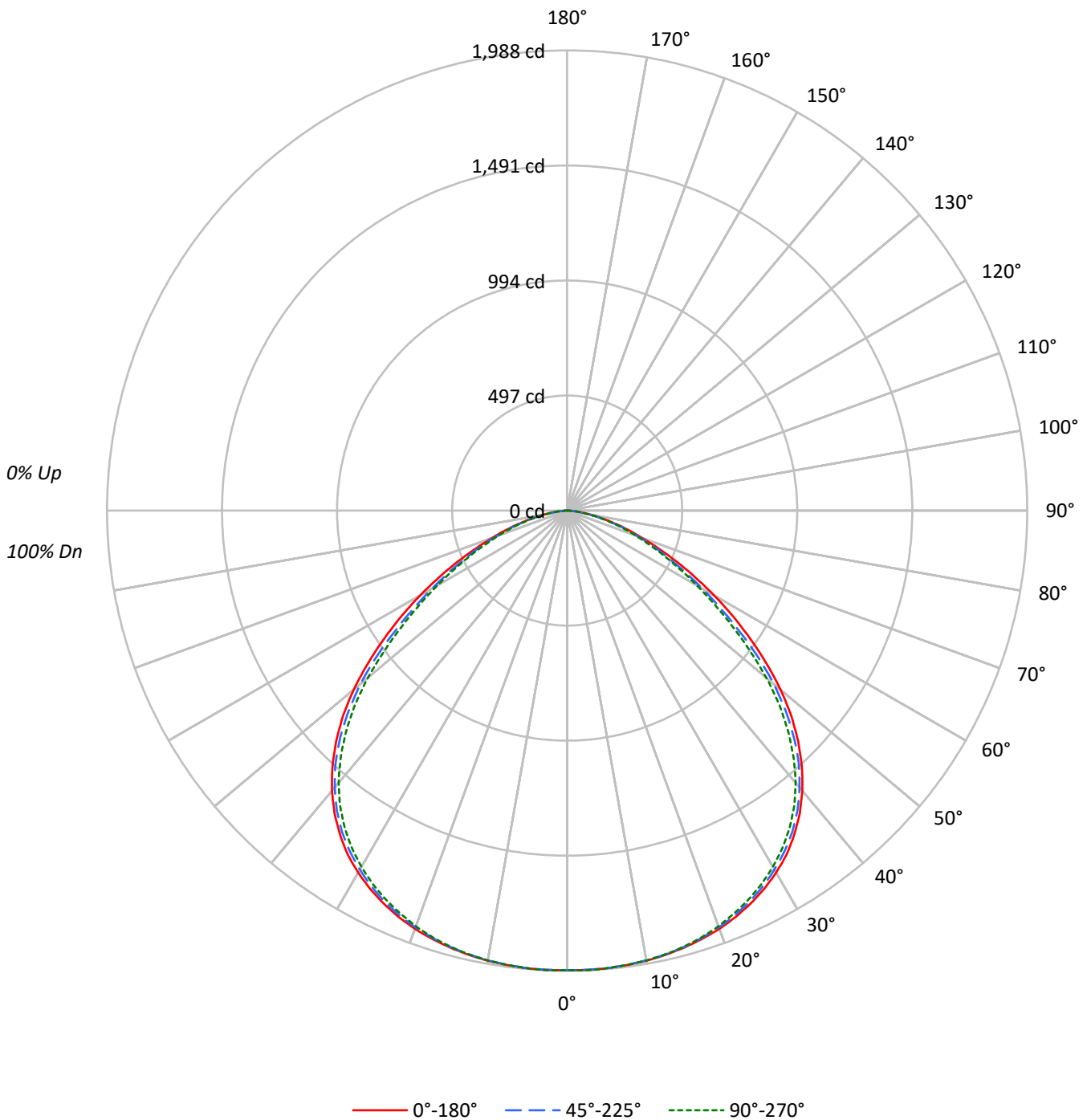
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5283.0 lumens
Efficiency: N/A
Efficacy: 126.7 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°	2671	2671	2671
5°	2680	2680	2680
10°	2698	2695	2696
15°	2722	2719	2717
20°	2753	2744	2737
25°	2782	2768	2752
30°	2806	2783	2762
35°	2809	2785	2750
40°	2777	2744	2698
45°	2686	2637	2569
50°	2519	2441	2352
55°	2264	2129	2042
60°	1971	1814	1745
65°	1659	1535	1468
70°	1352	1284	1232
75°	1083	1045	1001
80°	831	766	746
85°	520	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.6
10°-20°	551.7	10.4
20°-30°	859.5	16.3
30°-40°	1057.4	20.0
40°-50°	1062.1	20.1
50°-60°	818.6	15.5
60°-70°	486.0	9.2
70°-80°	216.4	4.1
80°-90°	42.2	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°	1600.3	30.3
0°-40°	2657.7	50.3
0°-60°	4538.4	85.9
0°-90°	5283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1984	1985	1984	1982	1984	189
15°	1954	1954	1952	1949	1950	553
25°	1874	1873	1864	1856	1854	864
35°	1710	1708	1696	1681	1674	1068
45°	1412	1408	1386	1363	1350	1084
55°	965	947	908	880	870	863
65°	521	498	482	464	461	521
75°	208	204	201	194	193	226
85°	34	32	33	31	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1986.5	1985.9	1985.9	1983.8	1988.1
5°	1984.4	1984.9	1984.4	1982.3	1984.4
7.5°	1980.2	1980.7	1979.6	1977.5	1979.6
10°	1974.9	1974.9	1972.8	1971.7	1973.3
12.5°	1965.9	1965.9	1963.8	1962.3	1963.8
15°	1954.4	1954.4	1951.7	1948.6	1950.2
17.5°	1940.2	1940.2	1936.0	1931.7	1932.8
20°	1922.8	1922.3	1916.5	1910.7	1911.2
22.5°	1900.7	1900.2	1892.8	1886.0	1883.9
25°	1873.9	1873.3	1864.4	1856.0	1853.9
27.5°	1842.8	1840.7	1830.7	1821.2	1819.1
30°	1806.0	1804.4	1791.2	1781.8	1777.6
32.5°	1763.4	1759.1	1747.0	1735.5	1729.7
35°	1710.2	1707.6	1695.5	1681.3	1674.4
37.5°	1650.2	1647.6	1634.4	1618.6	1610.8
40°	1580.8	1578.7	1562.3	1546.0	1536.0
42.5°	1500.8	1499.2	1481.8	1459.2	1448.7
45°	1411.8	1408.2	1386.1	1362.9	1350.3
47.5°	1312.9	1306.6	1279.8	1257.7	1244.0
50°	1203.5	1195.0	1166.1	1137.7	1123.5
52.5°	1085.1	1070.3	1040.3	1007.7	994.0
55°	965.1	946.7	907.7	880.4	870.4
57.5°	847.7	820.9	784.1	764.6	754.6
60°	732.5	703.0	674.1	655.1	648.3
62.5°	622.5	597.8	573.1	554.1	549.9
65°	521.0	498.3	482.0	463.6	461.0
67.5°	426.2	415.7	401.0	385.2	383.1
70°	343.6	339.4	326.3	316.8	313.1
72.5°	274.2	269.9	260.5	253.6	252.6
75°	208.4	204.2	201.0	194.2	192.6
77.5°	148.4	148.9	146.3	142.6	143.7
80°	107.3	101.0	98.9	96.8	96.3
82.5°	65.8	62.1	60.5	60.0	61.0
85°	33.7	32.1	32.6	31.0	32.6
87.5°	11.6	11.6	12.1	11.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)