

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: P412524

Luminaire Tested: **24PD-50-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412524
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-50-PB1-L830
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

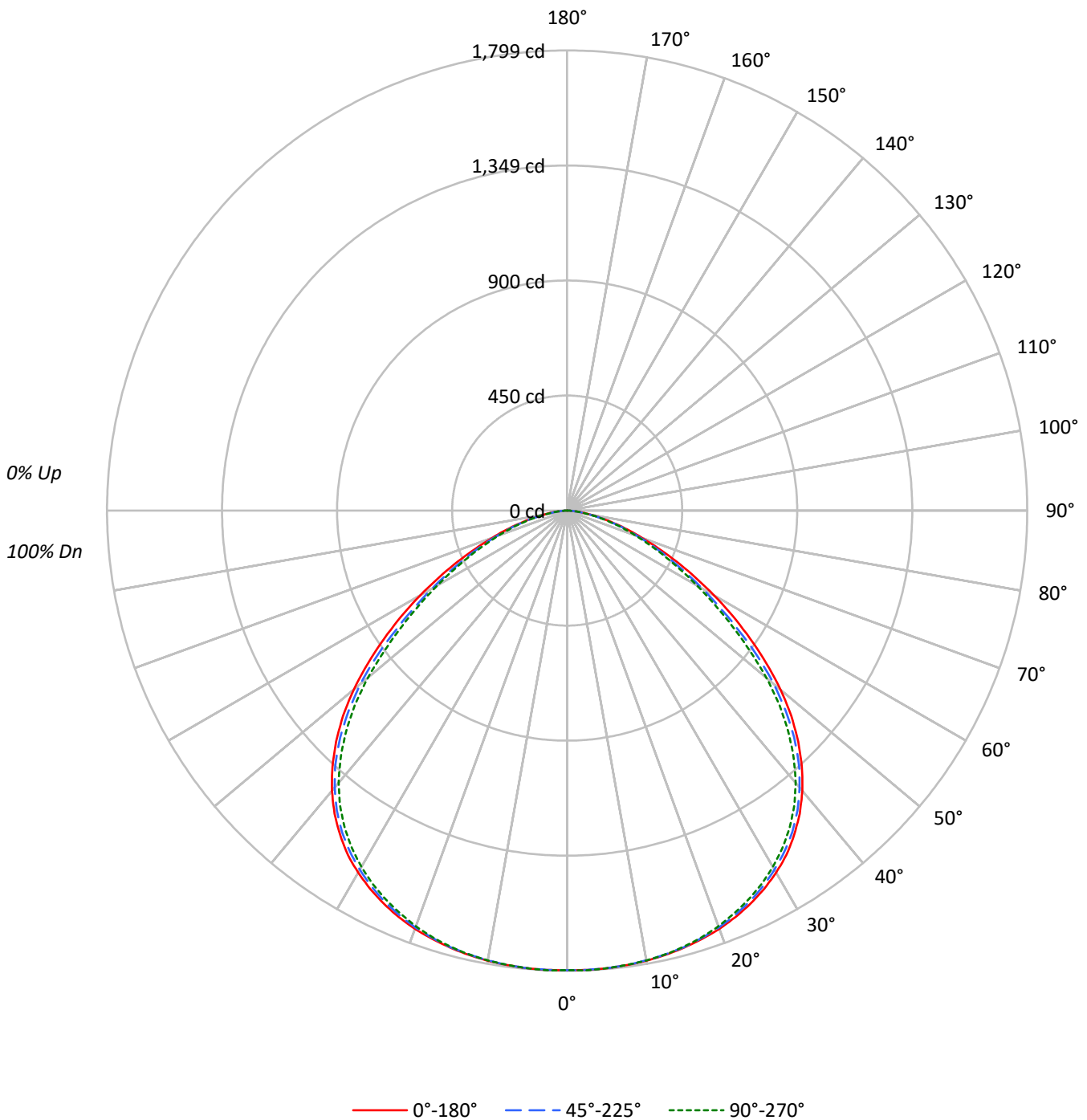
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4781.0 lumens
Efficiency: N/A
Efficacy: 127.5 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): 37.5
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°	2418	2418	2418
5°	2425	2425	2425
10°	2442	2439	2440
15°	2464	2460	2458
20°	2492	2483	2477
25°	2518	2505	2491
30°	2539	2518	2499
35°	2542	2520	2489
40°	2513	2483	2442
45°	2431	2387	2325
50°	2280	2209	2128
55°	2049	1927	1848
60°	1784	1641	1579
65°	1501	1389	1328
70°	1223	1162	1114
75°	980	946	906
80°	752	693	675
85°	471	455	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.6
10°-20°	499.3	10.4
20°-30°	777.9	16.3
30°-40°	956.9	20.0
40°-50°	961.2	20.1
50°-60°	740.8	15.5
60°-70°	439.8	9.2
70°-80°	195.8	4.1
80°-90°	38.2	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°	1448.2	30.3
0°-40°	2405.2	50.3
0°-60°	4107.2	85.9
0°-90°	4781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1796	1796	1796	1794	1796	171
15°	1769	1769	1766	1763	1765	500
25°	1696	1695	1687	1680	1678	782
35°	1548	1545	1534	1522	1515	966
45°	1278	1274	1254	1233	1222	981
55°	873	857	822	797	788	781
65°	472	451	436	420	417	471
75°	189	185	182	176	174	204
85°	30	29	30	28	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.8	1796.8	1796.8	1796.8	1796.8
2.5°	1797.7	1797.2	1797.2	1795.3	1799.1
5°	1795.8	1796.3	1795.8	1793.9	1795.8
7.5°	1792.0	1792.5	1791.5	1789.6	1791.5
10°	1787.2	1787.2	1785.3	1784.4	1785.8
12.5°	1779.1	1779.1	1777.2	1775.8	1777.2
15°	1768.7	1768.7	1766.3	1763.4	1764.9
17.5°	1755.8	1755.8	1752.0	1748.2	1749.1
20°	1740.1	1739.6	1734.4	1729.1	1729.6
22.5°	1720.1	1719.6	1712.9	1706.8	1704.9
25°	1695.8	1695.3	1687.2	1679.6	1677.7
27.5°	1667.7	1665.8	1656.8	1648.2	1646.3
30°	1634.4	1632.9	1621.0	1612.5	1608.7
32.5°	1595.8	1592.0	1581.0	1570.6	1565.3
35°	1547.7	1545.3	1534.4	1521.5	1515.3
37.5°	1493.4	1491.0	1479.1	1464.8	1457.7
40°	1430.6	1428.6	1413.9	1399.1	1390.1
42.5°	1358.2	1356.7	1341.0	1320.5	1311.0
45°	1277.7	1274.4	1254.4	1233.4	1222.0
47.5°	1188.2	1182.4	1158.2	1138.2	1125.8
50°	1089.1	1081.5	1055.3	1029.6	1016.7
52.5°	982.0	968.6	941.5	912.0	899.6
55°	873.4	856.7	821.5	796.7	787.7
57.5°	767.2	742.9	709.6	691.9	682.9
60°	662.9	636.2	610.0	592.9	586.7
62.5°	563.4	541.0	518.6	501.5	497.6
65°	471.5	451.0	436.2	419.5	417.2
67.5°	385.7	376.2	362.9	348.6	346.7
70°	311.0	307.2	295.3	286.7	283.3
72.5°	248.1	244.3	235.7	229.5	228.6
75°	188.6	184.8	181.9	175.7	174.3
77.5°	134.3	134.8	132.4	129.1	130.0
80°	97.1	91.4	89.5	87.6	87.1
82.5°	59.5	56.2	54.8	54.3	55.2
85°	30.5	29.0	29.5	28.1	29.5
87.5°	10.5	10.5	11.0	10.5	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)