

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: P412869

Luminaire Tested: **24PD-50-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412869
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-50-PP3-L850
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

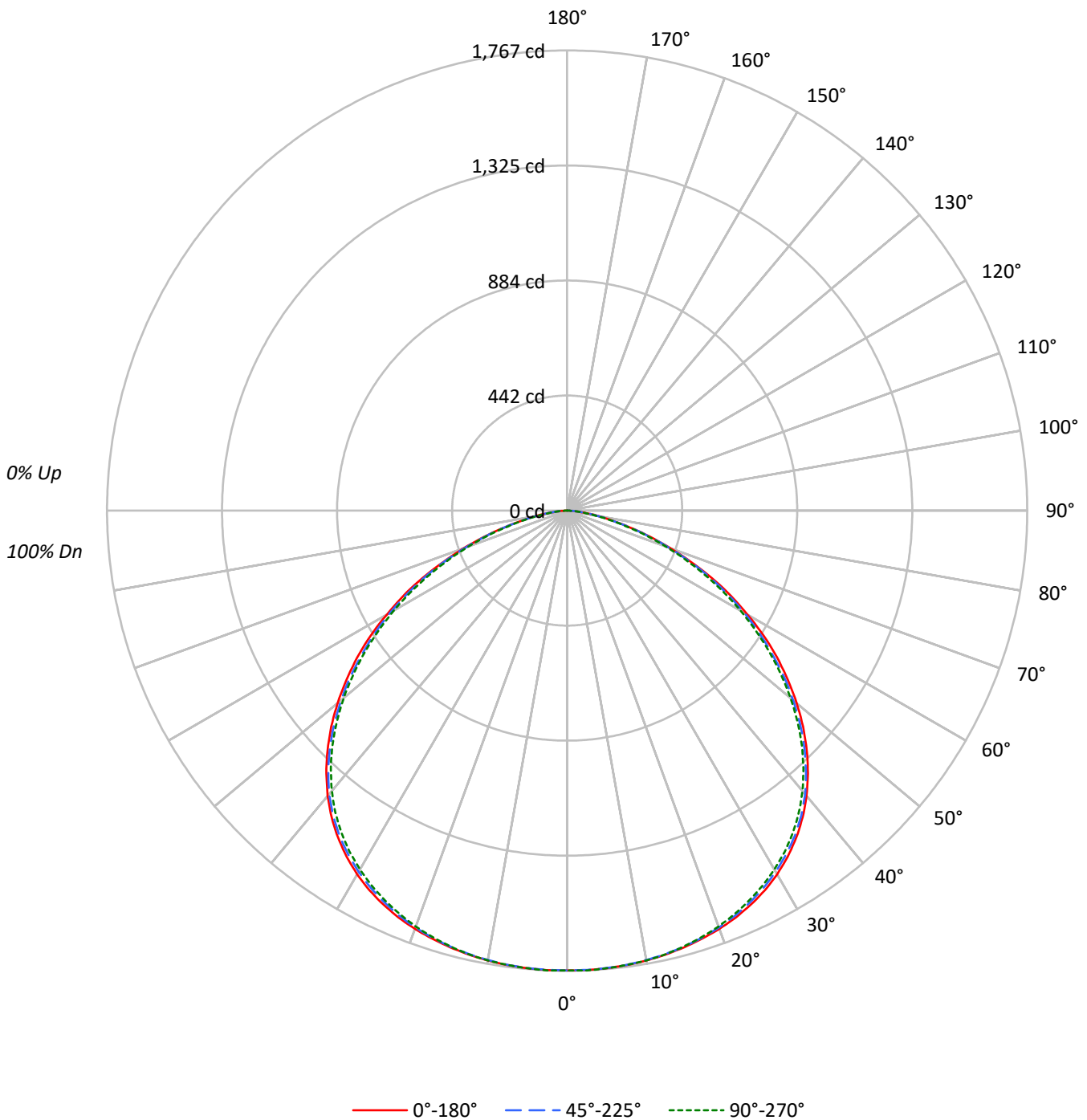
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5138.0 lumens
Efficiency: N/A
Efficacy: 137.0 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): 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	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°	2376	2376	2376
5°	2382	2381	2383
10°	2397	2394	2396
15°	2418	2415	2413
20°	2447	2439	2433
25°	2478	2465	2454
30°	2506	2488	2472
35°	2519	2504	2481
40°	2513	2497	2469
45°	2477	2452	2425
50°	2409	2370	2345
55°	2309	2254	2225
60°	2151	2114	2071
65°	1950	1911	1855
70°	1664	1634	1581
75°	1300	1287	1225
80°	958	919	867
85°	579	579	539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	3.3
10°-20°	490.2	9.5
20°-30°	766.2	14.9
30°-40°	952.3	18.5
40°-50°	992.2	19.3
50°-60°	861.0	16.8
60°-70°	592.0	11.5
70°-80°	267.2	5.2
80°-90°	49.0	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°	1424.4	27.7
0°-40°	2376.7	46.3
0°-60°	4229.9	82.3
0°-90°	5138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1764	1764	1763	1762	1764	168
15°	1736	1736	1733	1732	1732	491
25°	1669	1669	1660	1654	1653	770
35°	1534	1534	1524	1516	1511	958
45°	1302	1302	1289	1279	1274	1002
55°	984	979	961	949	948	877
65°	613	610	600	586	583	605
75°	250	251	248	241	236	272
85°	38	37	38	37	35	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765.8	1765.8	1765.8	1765.8	1765.8
2.5°	1766.3	1766.3	1765.3	1763.7	1767.3
5°	1763.7	1764.2	1763.2	1761.7	1764.2
7.5°	1760.1	1760.6	1759.1	1757.6	1759.6
10°	1754.5	1754.0	1752.4	1751.4	1754.0
12.5°	1746.3	1745.8	1744.2	1743.2	1745.2
15°	1736.0	1736.0	1733.4	1731.9	1732.4
17.5°	1723.7	1723.7	1720.1	1716.5	1717.5
20°	1709.3	1708.8	1703.7	1700.1	1699.5
22.5°	1691.3	1691.3	1684.1	1679.5	1678.0
25°	1669.3	1668.7	1660.5	1653.8	1652.8
27.5°	1644.1	1643.1	1633.3	1626.6	1624.1
30°	1612.8	1611.7	1601.5	1594.3	1591.2
32.5°	1575.8	1577.3	1565.5	1557.3	1554.2
35°	1533.7	1533.7	1524.5	1515.7	1510.6
37.5°	1485.4	1485.4	1476.7	1468.0	1461.8
40°	1430.5	1431.0	1421.8	1411.0	1405.8
42.5°	1368.9	1369.9	1357.6	1348.9	1343.2
45°	1301.6	1302.1	1288.8	1279.0	1274.4
47.5°	1228.7	1227.7	1212.8	1204.6	1200.0
50°	1150.7	1148.6	1132.2	1124.5	1120.4
52.5°	1069.0	1064.9	1050.5	1039.2	1035.6
55°	984.3	978.7	960.7	949.4	948.4
57.5°	896.0	889.3	874.4	863.6	859.5
60°	799.5	797.9	785.6	772.8	769.7
62.5°	709.1	704.5	693.7	678.3	676.7
65°	612.6	610.0	600.2	585.9	582.8
67.5°	512.9	515.5	507.3	494.5	490.4
70°	423.1	424.6	415.4	403.6	402.0
72.5°	332.7	335.3	327.6	319.9	318.3
75°	250.1	251.1	247.5	240.8	235.7
77.5°	177.7	181.3	177.1	172.5	168.4
80°	123.7	118.1	118.6	116.6	111.9
82.5°	74.5	71.9	71.4	69.3	67.3
85°	37.5	37.0	37.5	37.0	34.9
87.5°	12.3	13.3	13.9	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)