

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: P412518

Luminaire Tested: **24PD-45-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412518
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-45-PB1-L850
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

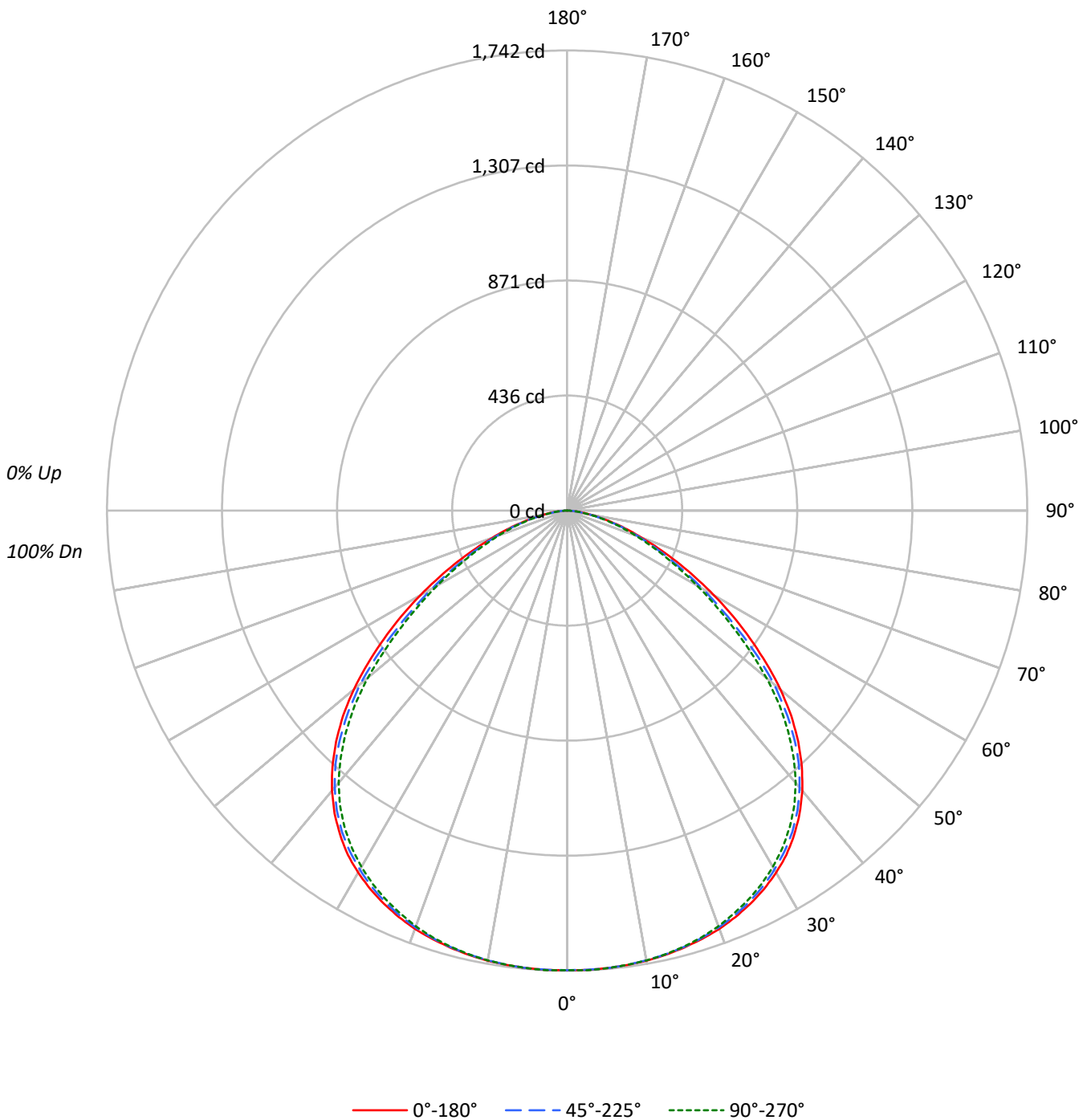
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4629.0 lumens
Efficiency: N/A
Efficacy: 138.6 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): 33.4
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

TEST NUMBER: P412518
CATALOG NUMBER: 24PD-45-PB1-L850

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°	2341	2341	2341
5°	2348	2348	2348
10°	2364	2362	2362
15°	2385	2382	2380
20°	2412	2404	2398
25°	2438	2425	2412
30°	2458	2438	2420
35°	2461	2440	2410
40°	2433	2404	2364
45°	2354	2311	2251
50°	2207	2139	2061
55°	1984	1866	1789
60°	1727	1589	1528
65°	1453	1344	1286
70°	1185	1125	1079
75°	949	915	878
80°	729	672	654
85°	455	442	442



TEST NUMBER: P412518

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	3.6
10°-20°	483.4	10.4
20°-30°	753.1	16.3
30°-40°	926.5	20.0
40°-50°	930.6	20.1
50°-60°	717.3	15.5
60°-70°	425.8	9.2
70°-80°	189.6	4.1
80°-90°	37.0	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°	1402.2	30.3
0°-40°	2328.7	50.3
0°-60°	3976.6	85.9
0°-90°	4629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1739	1739	1739	1737	1739	166
15°	1712	1712	1710	1707	1709	484
25°	1642	1641	1634	1626	1624	757
35°	1498	1496	1486	1473	1467	936
45°	1237	1234	1214	1194	1183	950
55°	846	830	795	771	763	756
65°	456	437	422	406	404	456
75°	183	179	176	170	169	198
85°	30	28	29	27	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.6	1739.6	1739.6	1739.6	1739.6
2.5°	1740.6	1740.1	1740.1	1738.3	1741.9
5°	1738.7	1739.2	1738.7	1736.9	1738.7
7.5°	1735.0	1735.5	1734.6	1732.7	1734.6
10°	1730.4	1730.4	1728.6	1727.6	1729.0
12.5°	1722.6	1722.6	1720.7	1719.4	1720.7
15°	1712.4	1712.4	1710.1	1707.4	1708.7
17.5°	1700.0	1700.0	1696.3	1692.6	1693.5
20°	1684.8	1684.3	1679.2	1674.2	1674.6
22.5°	1665.4	1664.9	1658.5	1652.5	1650.6
25°	1641.9	1641.4	1633.6	1626.2	1624.4
27.5°	1614.7	1612.8	1604.1	1595.8	1593.9
30°	1582.4	1581.0	1569.5	1561.2	1557.5
32.5°	1545.1	1541.4	1530.8	1520.6	1515.6
35°	1498.5	1496.2	1485.6	1473.1	1467.1
37.5°	1445.9	1443.6	1432.1	1418.3	1411.4
40°	1385.1	1383.2	1368.9	1354.6	1345.9
42.5°	1315.0	1313.6	1298.4	1278.6	1269.3
45°	1237.1	1233.8	1214.5	1194.2	1183.1
47.5°	1150.4	1144.9	1121.3	1102.0	1090.0
50°	1054.5	1047.1	1021.7	996.8	984.4
52.5°	950.7	937.8	911.5	883.0	871.0
55°	845.6	829.5	795.4	771.4	762.6
57.5°	742.8	719.3	687.0	669.9	661.2
60°	641.8	616.0	590.6	574.0	568.0
62.5°	545.5	523.8	502.1	485.5	481.8
65°	456.5	436.6	422.3	406.2	403.9
67.5°	373.5	364.2	351.3	337.5	335.7
70°	301.1	297.4	285.9	277.6	274.3
72.5°	240.2	236.5	228.2	222.2	221.3
75°	182.6	178.9	176.1	170.1	168.8
77.5°	130.0	130.5	128.2	125.0	125.9
80°	94.1	88.5	86.7	84.8	84.4
82.5°	57.6	54.4	53.0	52.6	53.5
85°	29.5	28.1	28.6	27.2	28.6
87.5°	10.1	10.1	10.6	10.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)