

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: P412540

Luminaire Tested: **24PD-55-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412540
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-L940
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

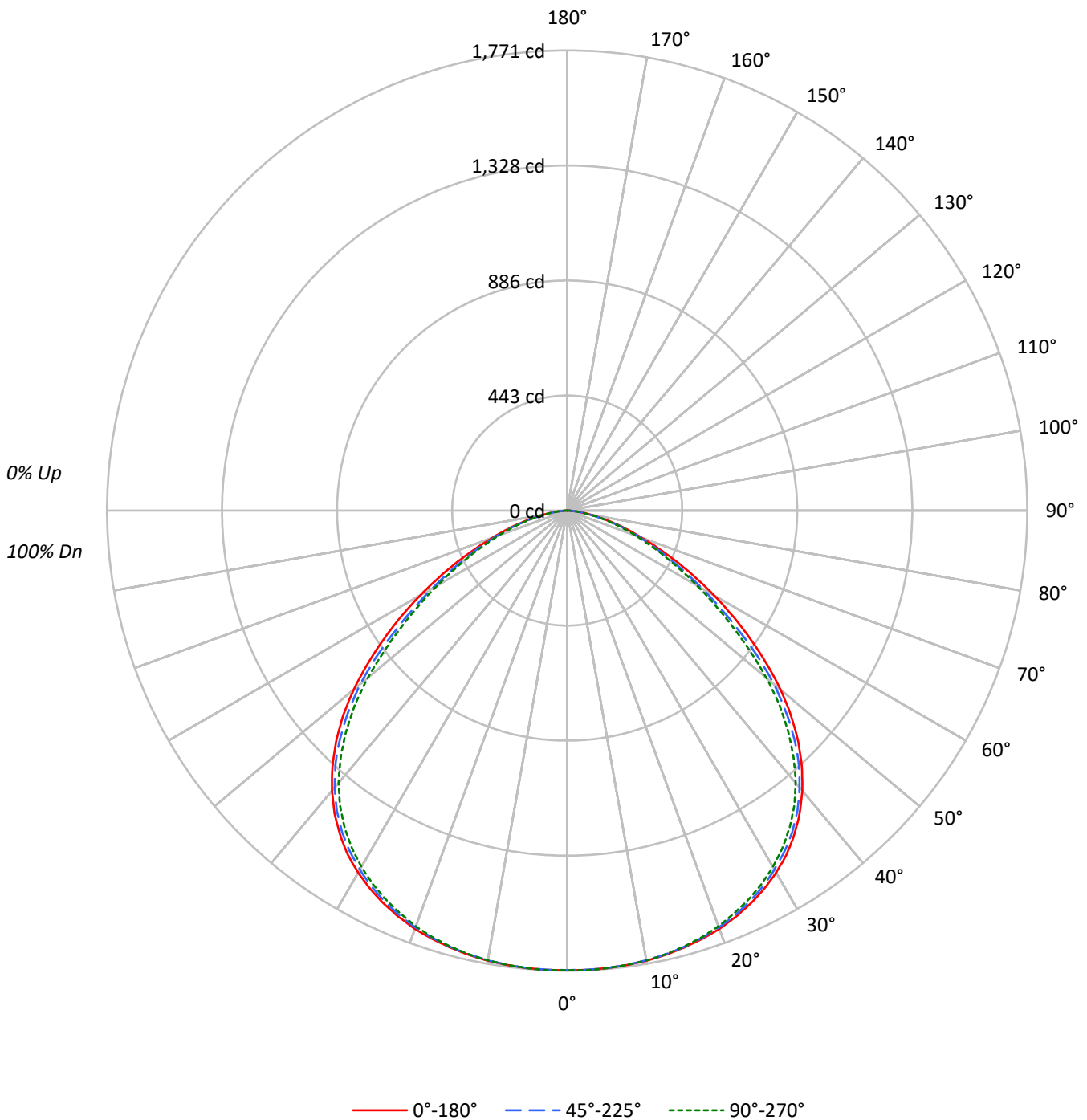
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

TEST NUMBER: P412540
CATALOG NUMBER: 24PD-55-PB1-L940

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°	2380	2380	2380
5°	2387	2387	2387
10°	2403	2401	2402
15°	2425	2422	2420
20°	2452	2444	2438
25°	2478	2466	2452
30°	2499	2479	2460
35°	2502	2481	2450
40°	2473	2444	2403
45°	2393	2349	2289
50°	2244	2174	2095
55°	2017	1897	1819
60°	1756	1616	1554
65°	1478	1367	1307
70°	1204	1143	1097
75°	965	931	892
80°	741	683	665
85°	463	449	449



TEST NUMBER: P412540

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.6
10°-20°	491.5	10.4
20°-30°	765.7	16.3
30°-40°	941.9	20.0
40°-50°	946.1	20.1
50°-60°	729.2	15.5
60°-70°	432.9	9.2
70°-80°	192.7	4.1
80°-90°	37.6	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°	1425.5	30.3
0°-40°	2367.4	50.3
0°-60°	4042.7	85.9
0°-90°	4706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1768	1768	1768	1766	1768	168
15°	1741	1741	1739	1736	1737	492
25°	1669	1669	1661	1653	1651	770
35°	1523	1521	1510	1498	1492	951
45°	1258	1254	1235	1214	1203	965
55°	860	843	809	784	775	769
65°	464	444	429	413	411	464
75°	186	182	179	173	172	201
85°	30	29	29	28	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1769.5	1769.0	1769.0	1767.2	1770.9
5°	1767.6	1768.1	1767.6	1765.8	1767.6
7.5°	1763.9	1764.4	1763.4	1761.5	1763.4
10°	1759.2	1759.2	1757.3	1756.4	1757.8
12.5°	1751.2	1751.2	1749.4	1748.0	1749.4
15°	1740.9	1740.9	1738.6	1735.8	1737.2
17.5°	1728.3	1728.3	1724.5	1720.8	1721.7
20°	1712.8	1712.3	1707.2	1702.0	1702.5
22.5°	1693.1	1692.6	1686.1	1680.0	1678.1
25°	1669.2	1668.7	1660.8	1653.3	1651.4
27.5°	1641.5	1639.7	1630.8	1622.3	1620.5
30°	1608.7	1607.3	1595.6	1587.2	1583.4
32.5°	1570.8	1567.0	1556.2	1545.9	1540.8
35°	1523.4	1521.1	1510.3	1497.6	1491.5
37.5°	1470.0	1467.6	1455.9	1441.9	1434.8
40°	1408.1	1406.2	1391.7	1377.2	1368.3
42.5°	1336.9	1335.5	1320.0	1299.8	1290.5
45°	1257.6	1254.4	1234.7	1214.0	1202.8
47.5°	1169.5	1163.9	1140.0	1120.3	1108.1
50°	1072.0	1064.5	1038.7	1013.4	1000.8
52.5°	966.6	953.4	926.7	897.6	885.5
55°	859.7	843.3	808.6	784.2	775.3
57.5°	755.1	731.2	698.4	681.1	672.2
60°	652.5	626.2	600.5	583.6	577.5
62.5°	554.5	532.5	510.5	493.6	489.8
65°	464.1	443.9	429.4	413.0	410.6
67.5°	379.7	370.3	357.2	343.1	341.2
70°	306.1	302.3	290.6	282.2	278.9
72.5°	244.2	240.5	232.0	225.9	225.0
75°	185.6	181.9	179.1	173.0	171.6
77.5°	132.2	132.7	130.3	127.0	128.0
80°	95.6	90.0	88.1	86.2	85.8
82.5°	58.6	55.3	53.9	53.4	54.4
85°	30.0	28.6	29.1	27.7	29.1
87.5°	10.3	10.3	10.8	10.3	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)