

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: P412541

Luminaire Tested: **24PD-55-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412541
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-L950
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

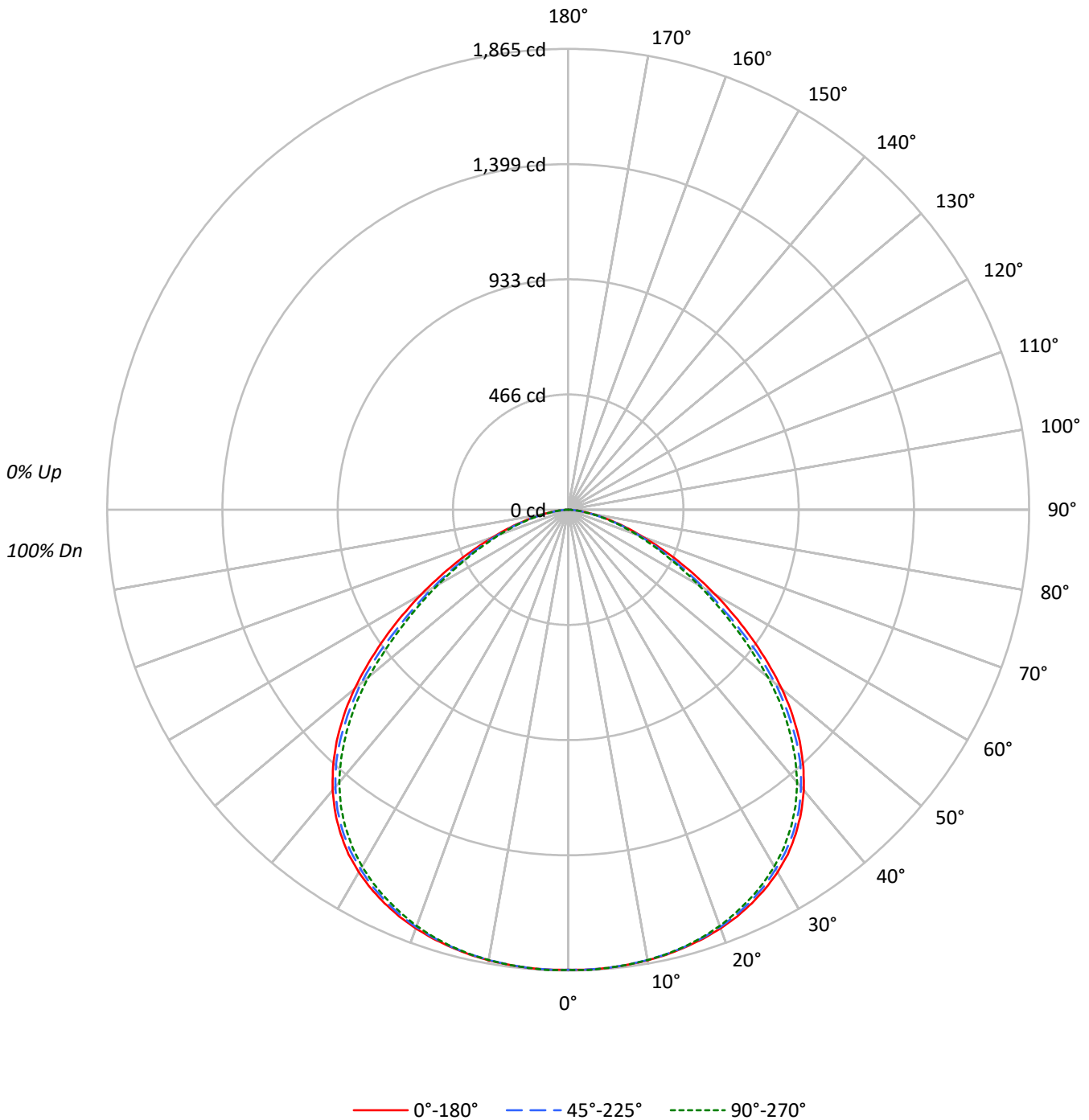
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4955.0 lumens
Efficiency: N/A
Efficacy: 118.8 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 (A_{in}): 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: P412541
CATALOG NUMBER: 24PD-55-PB1-L950

Luminous Intensity Polar Plot





TEST NUMBER: P412541

CATALOG NUMBER: 24PD-55-PB1-L950

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°	2506	2506	2506
5°	2514	2514	2514
10°	2531	2528	2529
15°	2553	2550	2548
20°	2582	2574	2567
25°	2609	2596	2581
30°	2632	2610	2590
35°	2635	2612	2580
40°	2604	2574	2530
45°	2520	2474	2410
50°	2363	2289	2206
55°	2123	1997	1915
60°	1849	1701	1636
65°	1556	1439	1376
70°	1268	1204	1155
75°	1016	980	939
80°	780	719	700
85°	488	472	472



TEST NUMBER: P412541

CATALOG NUMBER: 24PD-55-PB1-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	3.6
10°-20°	517.5	10.4
20°-30°	806.2	16.3
30°-40°	991.8	20.0
40°-50°	996.2	20.1
50°-60°	767.8	15.5
60°-70°	455.8	9.2
70°-80°	202.9	4.1
80°-90°	39.6	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°	1500.9	30.3
0°-40°	2492.7	50.3
0°-60°	4256.6	85.9
0°-90°	4955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1861	1862	1861	1859	1861	177
15°	1833	1833	1831	1828	1829	518
25°	1758	1757	1749	1741	1739	811
35°	1604	1602	1590	1577	1570	1002
45°	1324	1321	1300	1278	1266	1016
55°	905	888	851	826	816	809
65°	489	467	452	435	432	488
75°	195	192	188	182	181	212
85°	32	30	31	29	31	42
90°	0	0	0	0	0	



TEST NUMBER: P412541

CATALOG NUMBER: 24PD-55-PB1-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1863.1	1862.6	1862.6	1860.7	1864.6
5°	1861.2	1861.7	1861.2	1859.2	1861.2
7.5°	1857.2	1857.7	1856.7	1854.7	1856.7
10°	1852.3	1852.3	1850.3	1849.3	1850.8
12.5°	1843.9	1843.9	1841.9	1840.4	1841.9
15°	1833.0	1833.0	1830.6	1827.6	1829.1
17.5°	1819.7	1819.7	1815.8	1811.8	1812.8
20°	1803.4	1802.9	1797.5	1792.1	1792.6
22.5°	1782.7	1782.2	1775.3	1768.9	1766.9
25°	1757.5	1757.0	1748.6	1740.7	1738.8
27.5°	1728.4	1726.4	1717.0	1708.2	1706.2
30°	1693.9	1692.4	1680.0	1671.1	1667.2
32.5°	1653.9	1649.9	1638.6	1627.7	1622.3
35°	1604.0	1601.6	1590.2	1576.9	1570.5
37.5°	1547.8	1545.3	1533.0	1518.2	1510.7
40°	1482.6	1480.6	1465.3	1450.0	1440.7
42.5°	1407.6	1406.1	1389.8	1368.6	1358.7
45°	1324.2	1320.7	1300.0	1278.3	1266.4
47.5°	1231.4	1225.5	1200.3	1179.6	1166.7
50°	1128.7	1120.8	1093.7	1067.0	1053.7
52.5°	1017.7	1003.9	975.7	945.1	932.3
55°	905.2	887.9	851.4	825.7	816.3
57.5°	795.1	769.9	735.4	717.1	707.7
60°	687.0	659.4	632.2	614.5	608.0
62.5°	583.9	560.7	537.5	519.7	515.8
65°	488.6	467.4	452.1	434.8	432.3
67.5°	399.8	389.9	376.1	361.3	359.3
70°	322.3	318.3	306.0	297.1	293.7
72.5°	257.1	253.2	244.3	237.9	236.9
75°	195.4	191.5	188.5	182.1	180.6
77.5°	139.2	139.7	137.2	133.8	134.7
80°	100.7	94.8	92.8	90.8	90.3
82.5°	61.7	58.2	56.8	56.3	57.3
85°	31.6	30.1	30.6	29.1	30.6
87.5°	10.9	10.9	11.4	10.9	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)