

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: P412906

Luminaire Tested: **24PD-70-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412906
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-70-PP3-L927
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

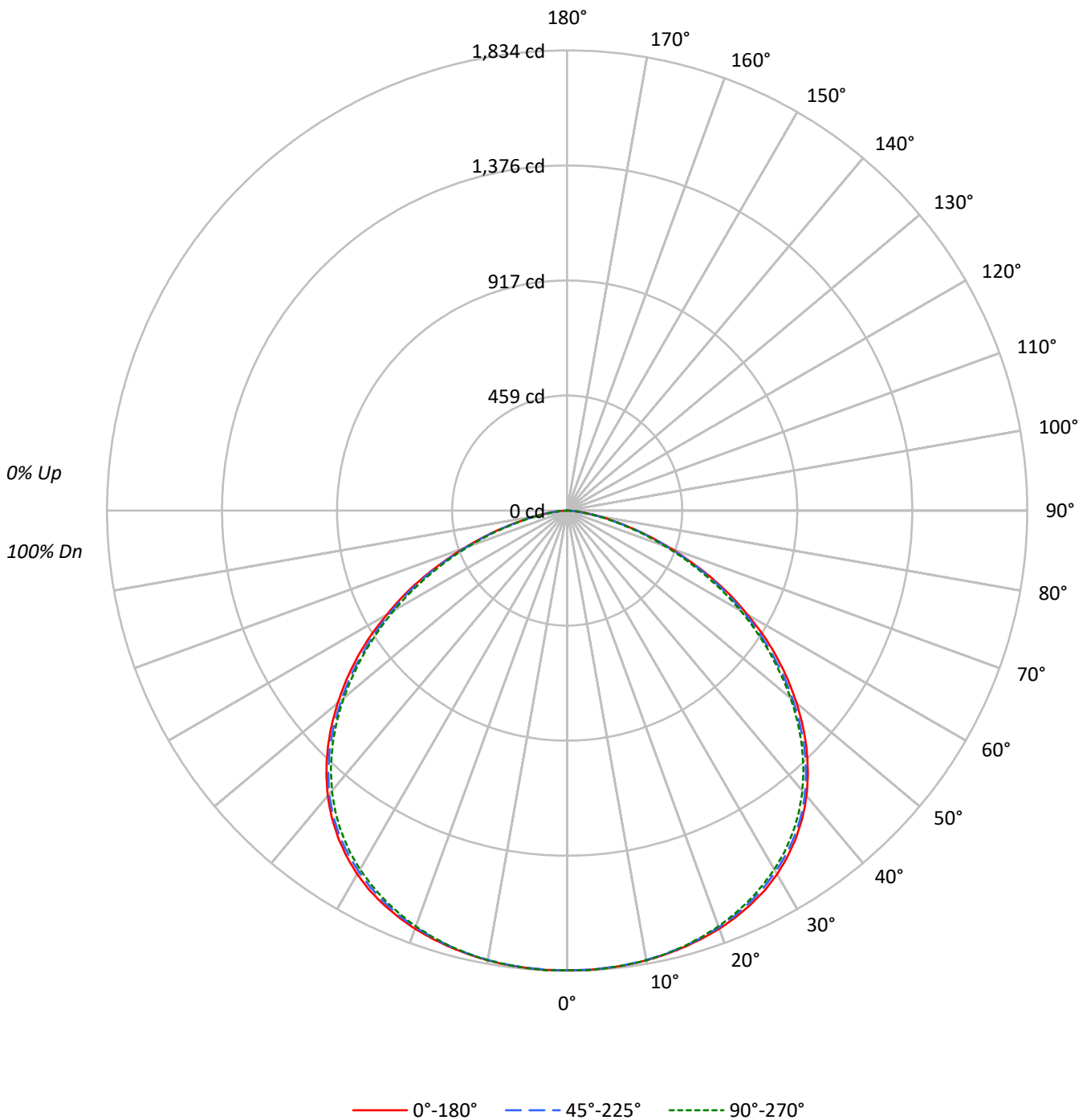
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5331.0 lumens
Efficiency: N/A
Efficacy: 101.9 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): 52.3
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: P412906
CATALOG NUMBER: 24PD-70-PP3-L927

Luminous Intensity Polar Plot





TEST NUMBER: P412906

CATALOG NUMBER: 24PD-70-PP3-L927

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°	2465	2465	2465
5°	2472	2471	2472
10°	2487	2484	2486
15°	2509	2505	2504
20°	2539	2531	2525
25°	2571	2558	2546
30°	2600	2582	2565
35°	2614	2598	2574
40°	2607	2591	2562
45°	2570	2544	2516
50°	2499	2459	2433
55°	2396	2338	2308
60°	2232	2193	2149
65°	2024	1983	1925
70°	1727	1696	1641
75°	1349	1335	1271
80°	995	954	900
85°	601	601	559



TEST NUMBER: P412906

CATALOG NUMBER: 24PD-70-PP3-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	3.3
10°-20°	508.6	9.5
20°-30°	795.0	14.9
30°-40°	988.0	18.5
40°-50°	1029.5	19.3
50°-60°	893.3	16.8
60°-70°	614.3	11.5
70°-80°	277.2	5.2
80°-90°	50.8	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°	1478.0	27.7
0°-40°	2466.0	46.3
0°-60°	4388.8	82.3
0°-90°	5331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1830	1830	1829	1828	1830	174
15°	1801	1801	1798	1797	1798	509
25°	1732	1731	1723	1716	1715	799
35°	1591	1591	1582	1573	1567	994
45°	1350	1351	1337	1327	1322	1039
55°	1021	1015	997	985	984	910
65°	636	633	623	608	605	627
75°	259	260	257	250	244	282
85°	39	38	39	38	36	52
90°	0	0	0	0	0	



TEST NUMBER: P412906

CATALOG NUMBER: 24PD-70-PP3-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.1	1832.1	1832.1	1832.1	1832.1
2.5°	1832.6	1832.6	1831.6	1830.0	1833.7
5°	1830.0	1830.5	1829.4	1827.8	1830.5
7.5°	1826.2	1826.8	1825.2	1823.6	1825.7
10°	1820.4	1819.9	1818.3	1817.2	1819.9
12.5°	1811.9	1811.3	1809.7	1808.7	1810.8
15°	1801.2	1801.2	1798.5	1796.9	1797.5
17.5°	1788.4	1788.4	1784.7	1781.0	1782.0
20°	1773.5	1773.0	1767.6	1763.9	1763.4
22.5°	1754.9	1754.9	1747.4	1742.6	1741.0
25°	1732.0	1731.4	1722.9	1716.0	1714.9
27.5°	1705.8	1704.8	1694.7	1687.7	1685.1
30°	1673.4	1672.3	1661.6	1654.2	1651.0
32.5°	1635.0	1636.6	1624.3	1615.8	1612.6
35°	1591.3	1591.3	1581.7	1572.7	1567.3
37.5°	1541.2	1541.2	1532.2	1523.1	1516.7
40°	1484.2	1484.8	1475.2	1464.0	1458.7
42.5°	1420.3	1421.4	1408.6	1399.5	1393.7
45°	1350.5	1351.0	1337.2	1327.1	1322.3
47.5°	1274.9	1273.8	1258.3	1249.8	1245.0
50°	1193.9	1191.8	1174.7	1166.7	1162.4
52.5°	1109.2	1104.9	1090.0	1078.3	1074.5
55°	1021.3	1015.4	996.8	985.0	984.0
57.5°	929.6	922.7	907.3	896.1	891.8
60°	829.5	827.9	815.1	801.8	798.6
62.5°	735.7	730.9	719.7	703.8	702.2
65°	635.6	632.9	622.8	607.9	604.7
67.5°	532.2	534.9	526.4	513.0	508.8
70°	439.0	440.6	431.0	418.7	417.1
72.5°	345.2	347.9	339.9	331.9	330.3
75°	259.4	260.5	256.8	249.9	244.5
77.5°	184.3	188.1	183.8	179.0	174.7
80°	128.4	122.5	123.1	120.9	116.1
82.5°	77.2	74.6	74.1	71.9	69.8
85°	38.9	38.4	38.9	38.4	36.2
87.5°	12.8	13.9	14.4	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)