

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: P412868

Luminaire Tested: **24PD-50-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412868
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-L840
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

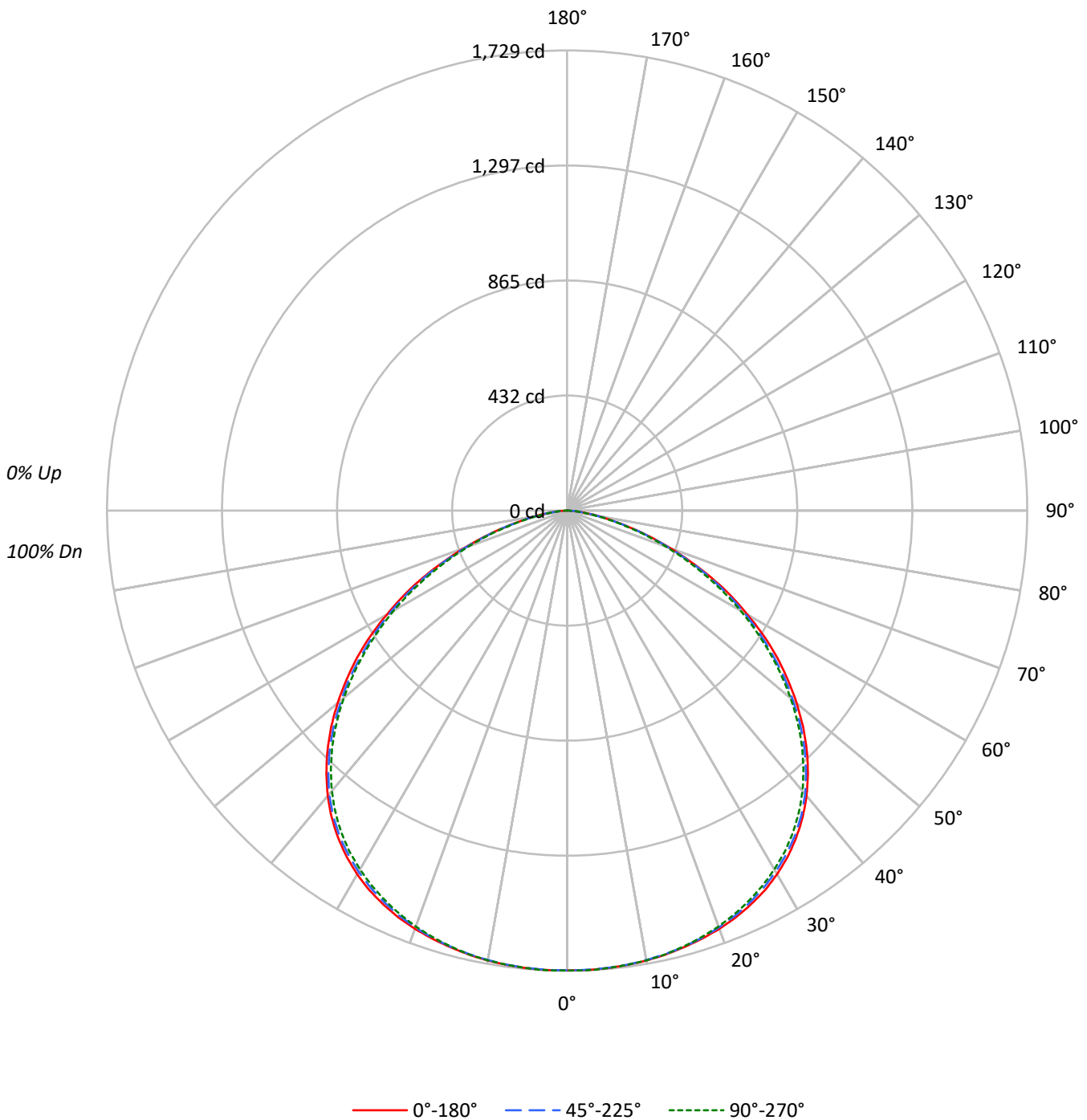
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5027.0 lumens
Efficiency: N/A
Efficacy: 134.1 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			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°	2324	2324	2324
5°	2331	2330	2331
10°	2345	2343	2345
15°	2366	2362	2361
20°	2395	2387	2381
25°	2425	2412	2401
30°	2451	2434	2419
35°	2465	2450	2428
40°	2458	2443	2416
45°	2423	2399	2373
50°	2357	2319	2295
55°	2259	2205	2177
60°	2105	2068	2026
65°	1908	1870	1815
70°	1628	1599	1548
75°	1272	1259	1199
80°	938	899	848
85°	567	567	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.3
10°-20°	479.6	9.5
20°-30°	749.7	14.9
30°-40°	931.7	18.5
40°-50°	970.8	19.3
50°-60°	842.4	16.8
60°-70°	579.2	11.5
70°-80°	261.4	5.2
80°-90°	47.9	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°	1393.7	27.7
0°-40°	2325.4	46.3
0°-60°	4138.5	82.3
0°-90°	5027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1726	1726	1725	1724	1726	164
15°	1698	1698	1696	1694	1695	480
25°	1633	1633	1625	1618	1617	753
35°	1501	1501	1492	1483	1478	938
45°	1274	1274	1261	1251	1247	980
55°	963	958	940	929	928	858
65°	599	597	587	573	570	591
75°	245	246	242	236	231	266
85°	37	36	37	36	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1728.1	1728.1	1727.1	1725.6	1729.1
5°	1725.6	1726.1	1725.1	1723.6	1726.1
7.5°	1722.1	1722.6	1721.1	1719.6	1721.6
10°	1716.6	1716.1	1714.6	1713.6	1716.1
12.5°	1708.5	1708.0	1706.5	1705.5	1707.5
15°	1698.5	1698.5	1696.0	1694.5	1695.0
17.5°	1686.4	1686.4	1682.9	1679.4	1680.4
20°	1672.4	1671.9	1666.8	1663.3	1662.8
22.5°	1654.8	1654.8	1647.8	1643.2	1641.7
25°	1633.2	1632.7	1624.6	1618.1	1617.1
27.5°	1608.6	1607.6	1598.0	1591.5	1589.0
30°	1577.9	1576.9	1566.9	1559.8	1556.8
32.5°	1541.8	1543.3	1531.7	1523.7	1520.7
35°	1500.6	1500.6	1491.5	1483.0	1478.0
37.5°	1453.3	1453.3	1444.8	1436.3	1430.2
40°	1399.6	1400.1	1391.0	1380.5	1375.5
42.5°	1339.3	1340.3	1328.3	1319.7	1314.2
45°	1273.5	1274.0	1260.9	1251.4	1246.9
47.5°	1202.2	1201.2	1186.6	1178.5	1174.0
50°	1125.8	1123.8	1107.7	1100.2	1096.2
52.5°	1045.9	1041.9	1027.8	1016.8	1013.3
55°	963.0	957.5	939.9	928.9	927.9
57.5°	876.6	870.1	855.5	845.0	841.0
60°	782.2	780.7	768.6	756.1	753.0
62.5°	693.8	689.2	678.7	663.6	662.1
65°	599.3	596.8	587.3	573.2	570.2
67.5°	501.9	504.4	496.3	483.8	479.8
70°	413.9	415.5	406.4	394.9	393.4
72.5°	325.5	328.0	320.5	313.0	311.5
75°	244.7	245.7	242.1	235.6	230.6
77.5°	173.8	177.3	173.3	168.8	164.8
80°	121.1	115.5	116.0	114.0	109.5
82.5°	72.8	70.3	69.8	67.8	65.8
85°	36.7	36.2	36.7	36.2	34.2
87.5°	12.1	13.1	13.6	13.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)