

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: P412409

Luminaire Tested: **22PD-50-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

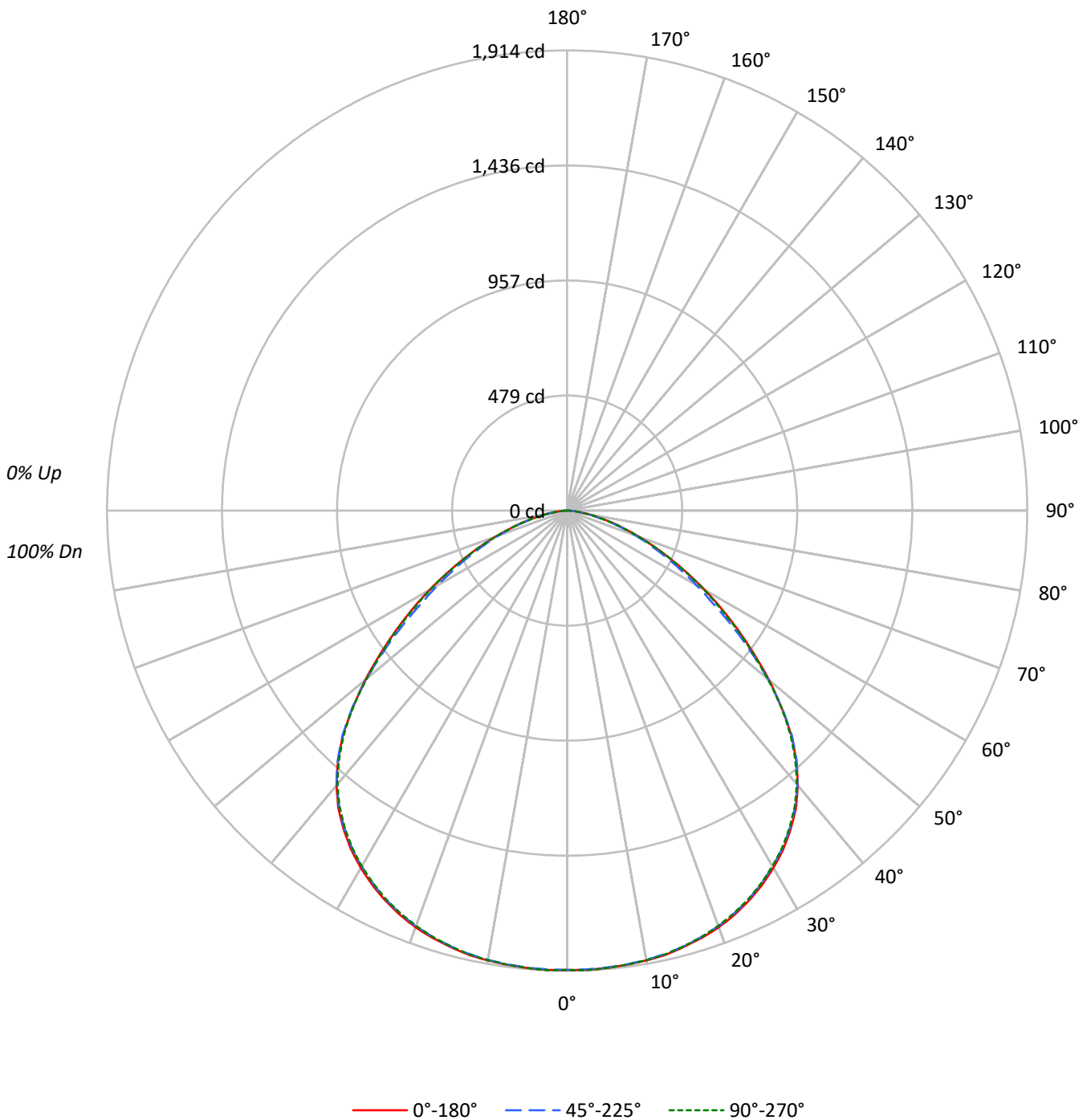
Test Method: LM-79-08  
Report Number: P412409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PB1-L840  
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5016.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.5  
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

TEST NUMBER: P412409  
CATALOG NUMBER: 22PD-50-PB1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P412409

CATALOG NUMBER: 22PD-50-PB1-L840

**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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5141	5141	5141
5°	5158	5153	5159
10°	5192	5185	5188
15°	5234	5226	5226
20°	5282	5267	5263
25°	5315	5299	5294
30°	5333	5311	5307
35°	5321	5306	5296
40°	5242	5236	5219
45°	5012	5027	4989
50°	4588	4563	4558
55°	4077	3933	4049
60°	3555	3338	3533
65°	3013	2851	2998
70°	2492	2389	2468
75°	2015	1886	1935
80°	1455	1410	1401
85°	948	948	911



TEST NUMBER: P412409

CATALOG NUMBER: 22PD-50-PB1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	3.6
10°-20°	530.2	10.6
20°-30°	822.7	16.4
30°-40°	1008.9	20.1
40°-50°	1008.5	20.1
50°-60°	763.9	15.2
60°-70°	458.2	9.1
70°-80°	201.7	4.0
80°-90°	40.0	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°	1534.7	30.6
0°-40°	2543.6	50.7
0°-60°	4316.0	86.0
0°-90°	5016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1909	1907	1908	1907	1910	182
15°	1879	1877	1876	1875	1876	531
25°	1790	1786	1785	1782	1783	825
35°	1620	1619	1615	1614	1612	1012
45°	1317	1319	1321	1317	1311	1008
55°	869	850	838	850	863	779
65°	473	457	448	456	471	473
75°	194	190	181	184	186	207
85°	31	32	31	30	30	41
90°	0	0	0	0	0	



TEST NUMBER: P412409

CATALOG NUMBER: 22PD-50-PB1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	1912.4	1909.4	1910.0	1910.0	1913.5
5°	1909.4	1907.0	1907.6	1907.0	1910.0
7.5°	1905.3	1902.9	1903.5	1902.9	1904.7
10°	1900.0	1897.6	1897.6	1896.4	1898.8
12.5°	1892.9	1889.9	1888.7	1888.1	1889.9
15°	1878.7	1876.9	1875.7	1874.6	1875.7
17.5°	1863.3	1860.4	1859.2	1856.8	1859.2
20°	1844.4	1840.3	1839.1	1837.3	1837.9
22.5°	1819.6	1816.1	1814.3	1811.3	1812.5
25°	1790.1	1786.5	1784.8	1781.8	1783.0
27.5°	1755.8	1753.4	1749.3	1746.9	1747.5
30°	1716.2	1713.9	1709.1	1708.0	1708.0
32.5°	1672.5	1669.6	1665.4	1664.2	1663.6
35°	1619.9	1619.3	1615.2	1614.0	1612.2
37.5°	1562.6	1561.4	1556.7	1555.5	1553.8
40°	1492.3	1491.1	1490.5	1488.2	1485.8
42.5°	1410.8	1412.6	1413.7	1409.0	1404.3
45°	1316.9	1318.6	1321.0	1317.4	1310.9
47.5°	1207.0	1214.1	1210.5	1212.9	1206.4
50°	1095.9	1095.9	1090.0	1092.4	1088.8
52.5°	979.5	970.1	963.0	967.7	972.4
55°	869.0	850.1	838.3	849.5	863.1
57.5°	763.3	740.8	719.0	736.7	753.2
60°	660.5	634.5	620.3	633.3	656.4
62.5°	563.0	544.1	529.9	540.0	559.5
65°	473.2	456.7	447.8	455.5	470.9
67.5°	391.1	379.9	371.0	377.5	389.3
70°	316.7	313.7	303.7	306.6	313.7
72.5°	248.7	248.1	239.3	241.6	245.8
75°	193.8	189.6	181.4	184.3	186.1
77.5°	137.1	138.8	131.2	132.9	132.9
80°	93.9	96.9	91.0	89.8	90.4
82.5°	59.7	59.7	59.1	58.5	56.7
85°	30.7	31.9	30.7	29.5	29.5
87.5°	11.8	11.8	11.8	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)