

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: P412391

Luminaire Tested: **22PD-40-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

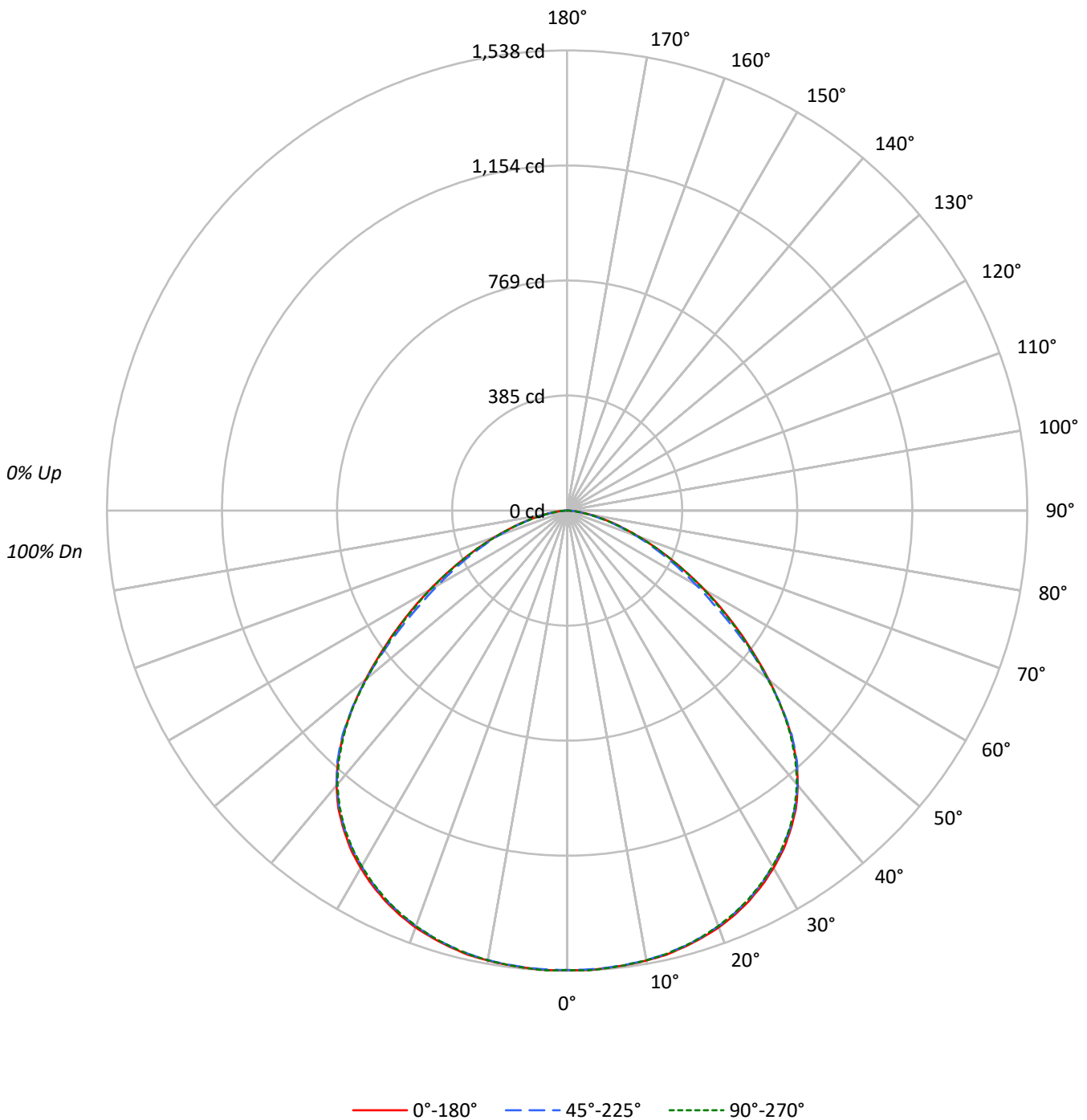
Test Method: LM-79-08  
Report Number: P412391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-40-PB1-L840  
Description: 4000 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: 4032.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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): 33.8  
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			
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°	4133	4133	4133
5°	4146	4142	4147
10°	4173	4168	4171
15°	4207	4201	4201
20°	4246	4233	4231
25°	4272	4260	4255
30°	4286	4269	4266
35°	4278	4265	4257
40°	4214	4209	4195
45°	4028	4041	4010
50°	3688	3668	3664
55°	3278	3162	3255
60°	2857	2683	2840
65°	2422	2292	2410
70°	2002	1921	1984
75°	1620	1516	1555
80°	1170	1133	1127
85°	763	763	732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	3.6
10°-20°	426.2	10.6
20°-30°	661.3	16.4
30°-40°	811.0	20.1
40°-50°	810.7	20.1
50°-60°	614.1	15.2
60°-70°	368.3	9.1
70°-80°	162.2	4.0
80°-90°	32.2	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°	1233.6	30.6
0°-40°	2044.6	50.7
0°-60°	3469.4	86.0
0°-90°	4032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1535	1533	1533	1533	1535	146
15°	1510	1509	1508	1507	1508	427
25°	1439	1436	1435	1432	1433	663
35°	1302	1302	1298	1297	1296	813
45°	1058	1060	1062	1059	1054	810
55°	699	683	674	683	694	626
65°	380	367	360	366	378	380
75°	156	152	146	148	150	166
85°	25	26	25	24	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1537.2	1534.8	1535.3	1535.3	1538.2
5°	1534.8	1532.9	1533.4	1532.9	1535.3
7.5°	1531.5	1529.6	1530.1	1529.6	1531.0
10°	1527.2	1525.3	1525.3	1524.4	1526.3
12.5°	1521.5	1519.2	1518.2	1517.7	1519.2
15°	1510.1	1508.7	1507.8	1506.8	1507.8
17.5°	1497.8	1495.4	1494.5	1492.6	1494.5
20°	1482.6	1479.3	1478.3	1476.9	1477.4
22.5°	1462.7	1459.8	1458.4	1456.0	1457.0
25°	1438.9	1436.1	1434.6	1432.3	1433.2
27.5°	1411.4	1409.5	1406.1	1404.2	1404.7
30°	1379.5	1377.6	1373.8	1372.9	1372.9
32.5°	1344.4	1342.0	1338.7	1337.8	1337.3
35°	1302.1	1301.7	1298.3	1297.4	1296.0
37.5°	1256.1	1255.1	1251.3	1250.4	1249.0
40°	1199.6	1198.6	1198.1	1196.2	1194.3
42.5°	1134.0	1135.5	1136.4	1132.6	1128.8
45°	1058.5	1059.9	1061.8	1059.0	1053.8
47.5°	970.2	975.9	973.0	974.9	969.7
50°	880.9	880.9	876.2	878.1	875.2
52.5°	787.4	779.8	774.1	777.9	781.7
55°	698.6	683.4	673.9	682.9	693.8
57.5°	613.6	595.5	577.9	592.2	605.5
60°	530.9	510.0	498.6	509.1	527.6
62.5°	452.6	437.4	426.0	434.0	449.7
65°	380.4	367.1	360.0	366.1	378.5
67.5°	314.4	305.4	298.2	303.5	313.0
70°	254.5	252.2	244.1	246.5	252.2
72.5°	199.9	199.5	192.3	194.2	197.6
75°	155.8	152.4	145.8	148.2	149.6
77.5°	110.2	111.6	105.4	106.8	106.8
80°	75.5	77.9	73.1	72.2	72.7
82.5°	48.0	48.0	47.5	47.0	45.6
85°	24.7	25.6	24.7	23.7	23.7
87.5°	9.5	9.5	9.5	9.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)