

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: P412405

Luminaire Tested: **22PD-45-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

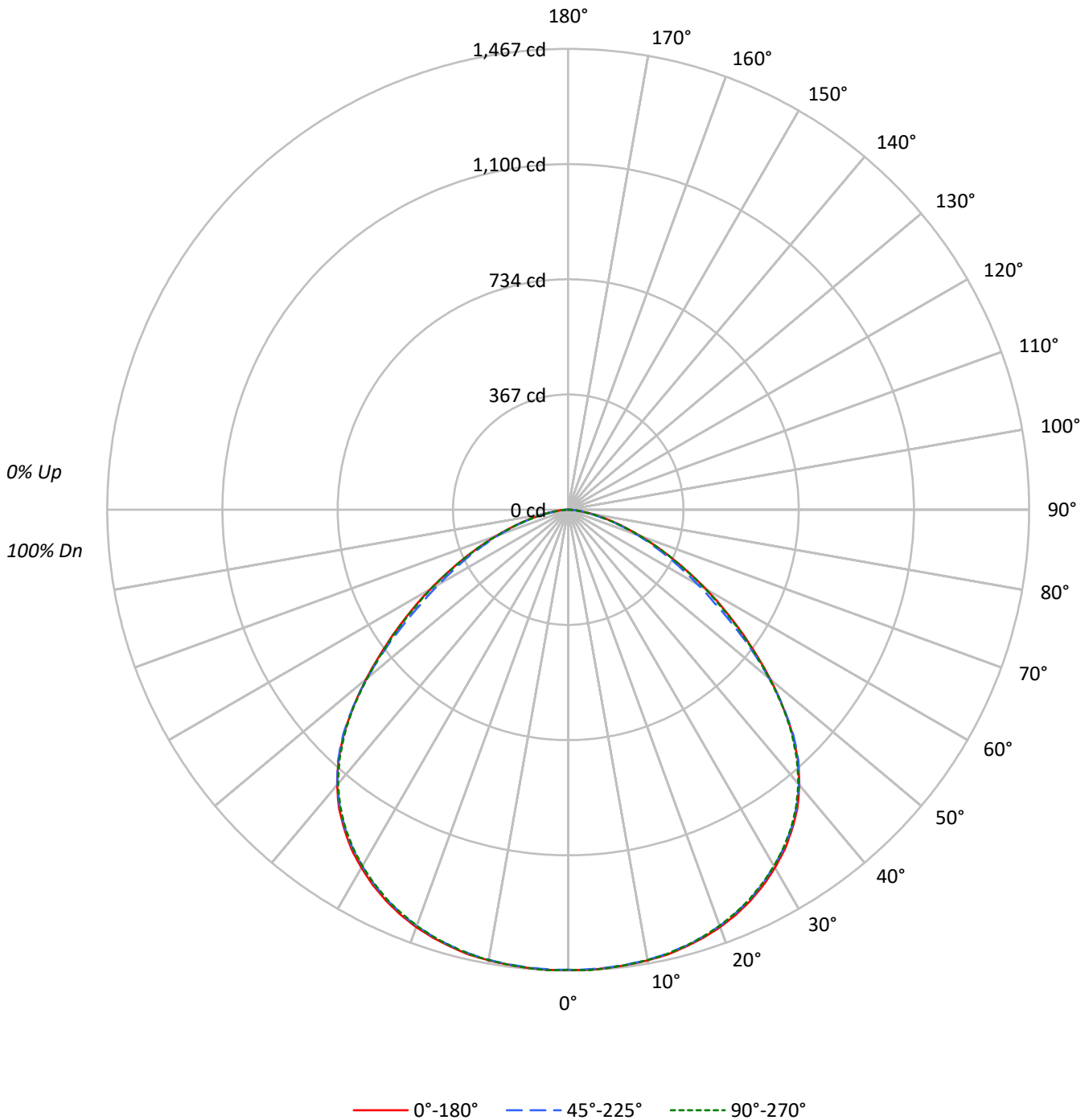
Test Method: LM-79-08  
Report Number: P412405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PB1-L940  
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3846.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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): 38.2  
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°	3942	3942	3942
5°	3955	3951	3956
10°	3981	3976	3978
15°	4013	4007	4007
20°	4050	4038	4035
25°	4075	4063	4059
30°	4089	4072	4069
35°	4080	4068	4061
40°	4019	4015	4002
45°	3843	3855	3825
50°	3518	3499	3495
55°	3126	3016	3105
60°	2725	2560	2709
65°	2310	2187	2299
70°	1910	1832	1892
75°	1545	1446	1484
80°	1116	1082	1074
85°	729	729	698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.4	3.6
10°-20°	406.5	10.6
20°-30°	630.8	16.4
30°-40°	773.6	20.1
40°-50°	773.3	20.1
50°-60°	585.8	15.2
60°-70°	351.3	9.1
70°-80°	154.7	4.0
80°-90°	30.7	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°	1176.7	30.6
0°-40°	1950.3	50.7
0°-60°	3309.3	86.0
0°-90°	3846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1464	1462	1463	1462	1464	140
15°	1440	1439	1438	1437	1438	407
25°	1372	1370	1368	1366	1367	633
35°	1242	1242	1238	1238	1236	776
45°	1010	1011	1013	1010	1005	773
55°	666	652	643	651	662	597
65°	363	350	343	349	361	363
75°	149	145	139	141	143	158
85°	24	24	24	23	23	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1466.3	1464.0	1464.5	1464.5	1467.2
5°	1464.0	1462.2	1462.7	1462.2	1464.5
7.5°	1460.9	1459.0	1459.5	1459.0	1460.4
10°	1456.8	1455.0	1455.0	1454.1	1455.9
12.5°	1451.3	1449.1	1448.2	1447.7	1449.1
15°	1440.5	1439.1	1438.2	1437.3	1438.2
17.5°	1428.7	1426.4	1425.5	1423.7	1425.5
20°	1414.2	1411.0	1410.1	1408.8	1409.2
22.5°	1395.2	1392.5	1391.1	1388.8	1389.7
25°	1372.5	1369.8	1368.5	1366.2	1367.1
27.5°	1346.3	1344.4	1341.3	1339.5	1339.9
30°	1315.9	1314.1	1310.5	1309.6	1309.6
32.5°	1282.4	1280.1	1277.0	1276.0	1275.6
35°	1242.1	1241.6	1238.4	1237.5	1236.2
37.5°	1198.1	1197.2	1193.6	1192.7	1191.3
40°	1144.2	1143.3	1142.9	1141.1	1139.2
42.5°	1081.7	1083.1	1084.0	1080.4	1076.7
45°	1009.7	1011.1	1012.9	1010.1	1005.2
47.5°	925.4	930.9	928.2	930.0	925.0
50°	840.3	840.3	835.7	837.6	834.8
52.5°	751.0	743.8	738.4	742.0	745.6
55°	666.3	651.8	642.8	651.4	661.8
57.5°	585.3	568.0	551.3	564.9	577.5
60°	506.4	486.5	475.6	485.6	503.3
62.5°	431.7	417.2	406.3	414.0	429.0
65°	362.8	350.2	343.4	349.2	361.0
67.5°	299.9	291.3	284.5	289.5	298.5
70°	242.8	240.5	232.8	235.1	240.5
72.5°	190.7	190.3	183.5	185.3	188.4
75°	148.6	145.4	139.1	141.3	142.7
77.5°	105.1	106.5	100.6	101.9	101.9
80°	72.0	74.3	69.8	68.9	69.3
82.5°	45.8	45.8	45.3	44.8	43.5
85°	23.6	24.5	23.6	22.6	22.6
87.5°	9.1	9.1	9.1	8.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)