

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: P412389

Luminaire Tested: **22PD-40-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

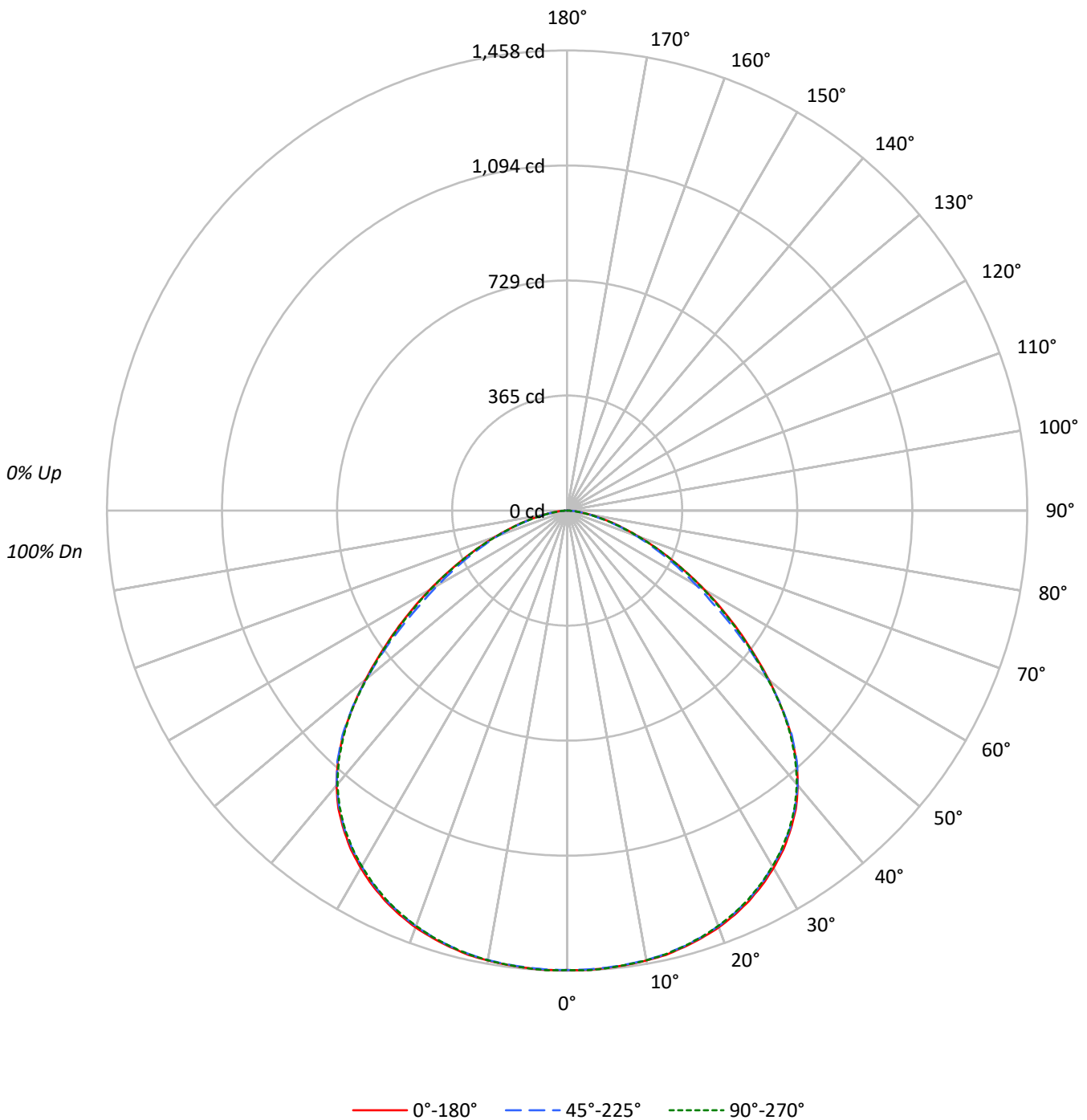
Test Method: LM-79-08  
Report Number: P412389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-40-PB1-L830  
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3822.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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°	3918	3918	3918
5°	3930	3926	3931
10°	3956	3951	3953
15°	3988	3982	3982
20°	4025	4013	4010
25°	4050	4038	4034
30°	4063	4047	4044
35°	4055	4043	4036
40°	3994	3990	3977
45°	3819	3830	3801
50°	3496	3477	3473
55°	3107	2997	3086
60°	2709	2544	2692
65°	2296	2173	2285
70°	1899	1821	1880
75°	1536	1437	1474
80°	1110	1074	1068
85°	722	722	695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	3.6
10°-20°	404.0	10.6
20°-30°	626.9	16.4
30°-40°	768.7	20.1
40°-50°	768.4	20.1
50°-60°	582.1	15.2
60°-70°	349.1	9.1
70°-80°	153.7	4.0
80°-90°	30.5	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°	1169.4	30.6
0°-40°	1938.1	50.7
0°-60°	3288.7	86.0
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1455	1453	1454	1453	1455	139
15°	1432	1430	1429	1428	1429	405
25°	1364	1361	1360	1358	1359	629
35°	1234	1234	1231	1230	1228	771
45°	1003	1005	1006	1004	999	768
55°	662	648	639	647	658	594
65°	361	348	341	347	359	361
75°	148	144	138	140	142	158
85°	23	24	23	22	22	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.8	1455.8	1455.8	1455.8	1455.8
2.5°	1457.1	1454.9	1455.3	1455.3	1458.0
5°	1454.9	1453.1	1453.5	1453.1	1455.3
7.5°	1451.7	1449.9	1450.4	1449.9	1451.3
10°	1447.7	1445.9	1445.9	1445.0	1446.8
12.5°	1442.3	1440.0	1439.1	1438.7	1440.0
15°	1431.5	1430.1	1429.2	1428.3	1429.2
17.5°	1419.8	1417.5	1416.6	1414.8	1416.6
20°	1405.4	1402.2	1401.3	1400.0	1400.4
22.5°	1386.5	1383.8	1382.4	1380.2	1381.1
25°	1364.0	1361.3	1359.9	1357.7	1358.6
27.5°	1337.9	1336.1	1332.9	1331.1	1331.6
30°	1307.7	1305.9	1302.3	1301.4	1301.4
32.5°	1274.4	1272.1	1269.0	1268.1	1267.6
35°	1234.3	1233.9	1230.7	1229.8	1228.5
37.5°	1190.7	1189.8	1186.2	1185.3	1183.9
40°	1137.1	1136.2	1135.7	1133.9	1132.1
42.5°	1075.0	1076.3	1077.2	1073.6	1070.0
45°	1003.4	1004.7	1006.5	1003.8	998.9
47.5°	919.7	925.1	922.4	924.2	919.2
50°	835.0	835.0	830.5	832.3	829.6
52.5°	746.4	739.2	733.7	737.4	741.0
55°	662.2	647.8	638.8	647.3	657.7
57.5°	581.6	564.5	547.8	561.3	573.9
60°	503.3	483.5	472.7	482.6	500.1
62.5°	429.0	414.6	403.8	411.4	426.3
65°	360.6	348.0	341.2	347.1	358.8
67.5°	298.0	289.4	282.7	287.6	296.7
70°	241.3	239.0	231.4	233.6	239.0
72.5°	189.5	189.1	182.3	184.1	187.3
75°	147.7	144.5	138.2	140.4	141.8
77.5°	104.4	105.8	99.9	101.3	101.3
80°	71.6	73.8	69.3	68.4	68.9
82.5°	45.5	45.5	45.0	44.6	43.2
85°	23.4	24.3	23.4	22.5	22.5
87.5°	9.0	9.0	9.0	8.6	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)