

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: P412380

Luminaire Tested: **22PD-35-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

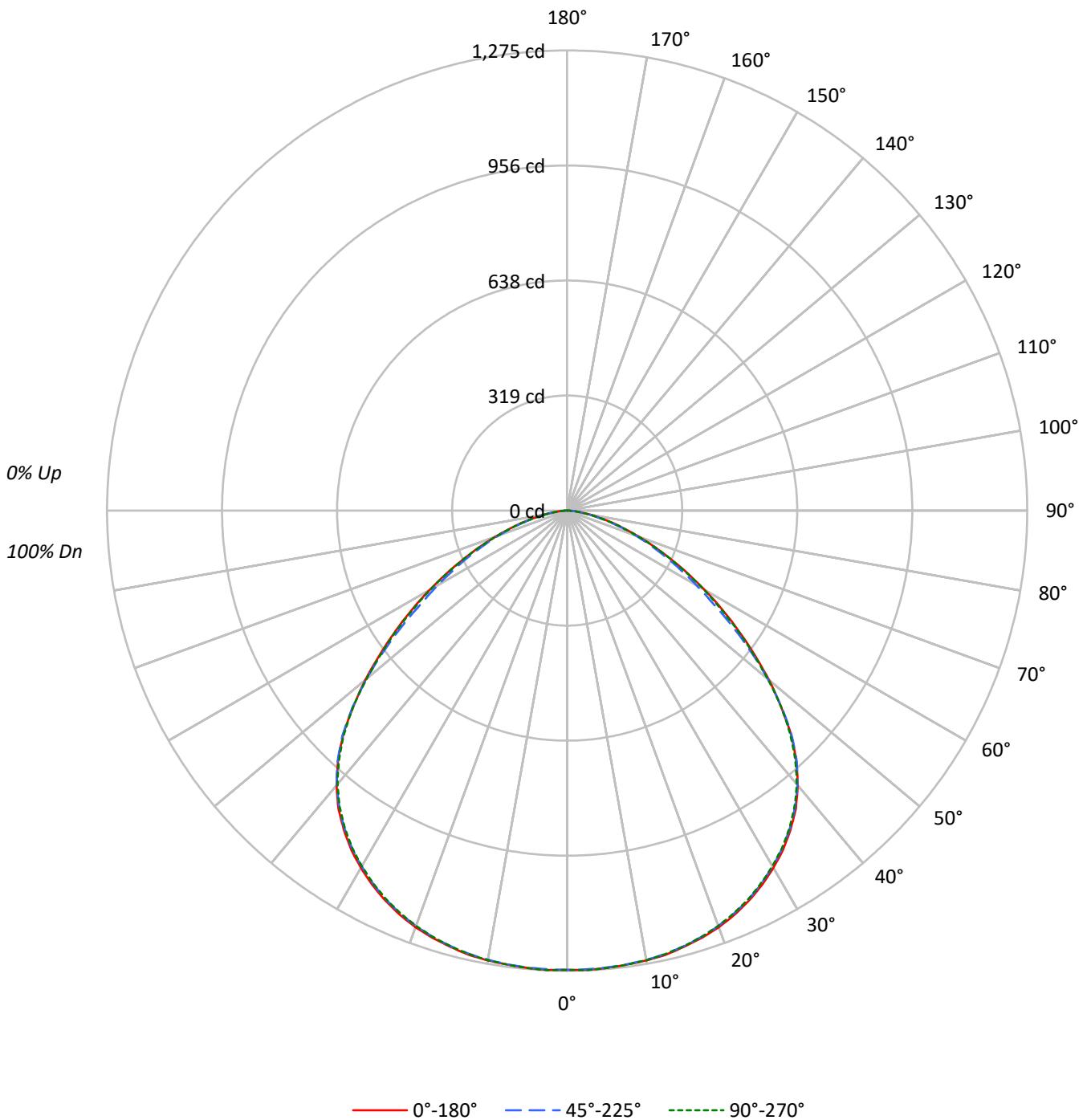
Test Method: LM-79-08  
Report Number: P412380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-35-PB1-L830  
Description: 3500 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: 3341.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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): 29.2  
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

TEST NUMBER: P412380  
CATALOG NUMBER: 22PD-35-PB1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P412380

CATALOG NUMBER: 22PD-35-PB1-L830

**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°	3425	3425	3425
5°	3435	3432	3437
10°	3458	3454	3456
15°	3486	3481	3481
20°	3518	3508	3506
25°	3540	3530	3526
30°	3552	3537	3535
35°	3545	3534	3528
40°	3492	3488	3477
45°	3338	3349	3323
50°	3056	3039	3036
55°	2715	2620	2697
60°	2368	2224	2353
65°	2007	1899	1997
70°	1659	1592	1644
75°	1342	1256	1289
80°	970	939	933
85°	633	633	608



TEST NUMBER: P412380

CATALOG NUMBER: 22PD-35-PB1-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	3.6
10°-20°	353.1	10.6
20°-30°	548.0	16.4
30°-40°	672.0	20.1
40°-50°	671.7	20.1
50°-60°	508.8	15.2
60°-70°	305.2	9.1
70°-80°	134.4	4.0
80°-90°	26.7	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°	1022.2	30.6
0°-40°	1694.2	50.7
0°-60°	2874.8	86.0
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1272	1270	1271	1270	1272	121
15°	1251	1250	1249	1249	1249	354
25°	1192	1190	1189	1187	1188	550
35°	1079	1079	1076	1075	1074	674
45°	877	878	880	878	873	671
55°	579	566	558	566	575	519
65°	315	304	298	303	314	315
75°	129	126	121	123	124	138
85°	20	21	20	20	20	27
90°	0	0	0	0	0	



TEST NUMBER: P412380

CATALOG NUMBER: 22PD-35-PB1-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1273.8	1271.8	1272.2	1272.2	1274.6
5°	1271.8	1270.2	1270.6	1270.2	1272.2
7.5°	1269.0	1267.5	1267.9	1267.5	1268.6
10°	1265.5	1263.9	1263.9	1263.1	1264.7
12.5°	1260.8	1258.8	1258.0	1257.6	1258.8
15°	1251.3	1250.2	1249.4	1248.6	1249.4
17.5°	1241.1	1239.1	1238.3	1236.8	1238.3
20°	1228.5	1225.8	1225.0	1223.8	1224.2
22.5°	1212.0	1209.6	1208.4	1206.5	1207.3
25°	1192.3	1189.9	1188.8	1186.8	1187.6
27.5°	1169.5	1167.9	1165.2	1163.6	1164.0
30°	1143.1	1141.5	1138.4	1137.6	1137.6
32.5°	1114.0	1112.0	1109.3	1108.5	1108.1
35°	1079.0	1078.6	1075.8	1075.0	1073.9
37.5°	1040.8	1040.0	1036.9	1036.1	1034.9
40°	994.0	993.2	992.8	991.2	989.7
42.5°	939.7	940.9	941.6	938.5	935.4
45°	877.1	878.3	879.9	877.5	873.2
47.5°	803.9	808.6	806.3	807.9	803.5
50°	729.9	729.9	726.0	727.6	725.2
52.5°	652.4	646.1	641.4	644.6	647.7
55°	578.8	566.2	558.4	565.9	574.9
57.5°	508.4	493.5	478.9	490.7	501.7
60°	439.9	422.6	413.2	421.8	437.2
62.5°	375.0	362.4	353.0	359.7	372.6
65°	315.2	304.2	298.3	303.4	313.6
67.5°	260.5	253.0	247.1	251.4	259.3
70°	210.9	208.9	202.3	204.2	208.9
72.5°	165.7	165.3	159.4	160.9	163.7
75°	129.1	126.3	120.8	122.8	124.0
77.5°	91.3	92.5	87.4	88.5	88.5
80°	62.6	64.5	60.6	59.8	60.2
82.5°	39.7	39.7	39.4	39.0	37.8
85°	20.5	21.2	20.5	19.7	19.7
87.5°	7.9	7.9	7.9	7.5	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)