

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: P413076

Luminaire Tested: **22PD-40-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

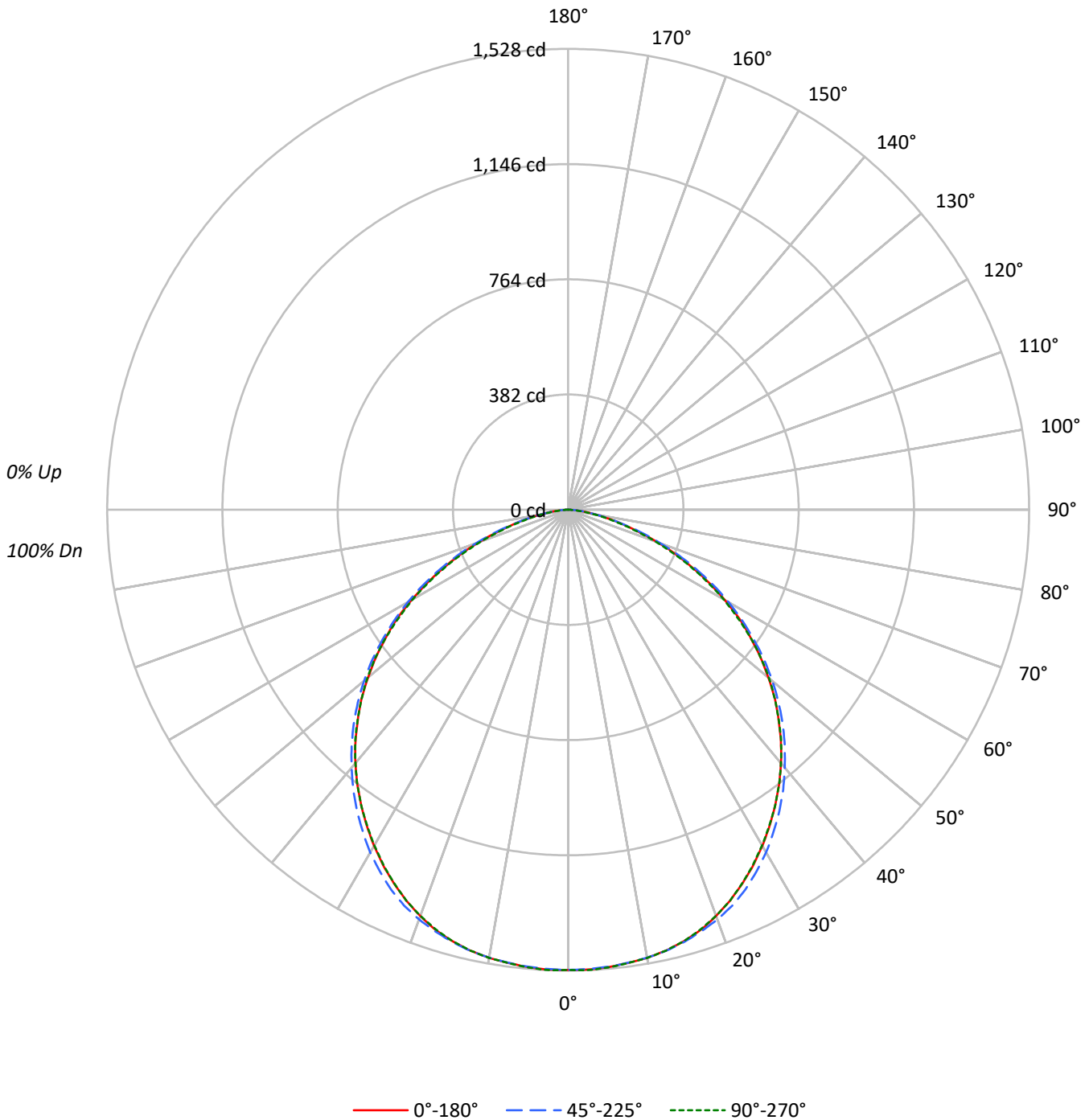
Test Method: LM-79-08  
Report Number: P413076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-40-PC3-L850  
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4100.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	4107	4107	4107
5°	4112	4109	4115
10°	4123	4121	4123
15°	4127	4133	4126
20°	4106	4140	4104
25°	4059	4125	4056
30°	3999	4077	3993
35°	3929	4007	3929
40°	3855	3924	3855
45°	3754	3828	3759
50°	3625	3697	3640
55°	3457	3525	3457
60°	3224	3305	3203
65°	2893	2995	2856
70°	2475	2563	2402
75°	1963	2019	1862
80°	1407	1460	1339
85°	929	960	871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.5
10°-20°	418.3	10.2
20°-30°	634.6	15.5
30°-40°	757.8	18.5
40°-50°	770.7	18.8
50°-60°	666.6	16.3
60°-70°	458.7	11.2
70°-80°	208.2	5.1
80°-90°	40.3	1.0
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°	1197.6	29.2
0°-40°	1955.4	47.7
0°-60°	3392.8	82.8
0°-90°	4100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1522	1521	1521	1521	1523	145
15°	1482	1482	1484	1481	1481	418
25°	1367	1379	1389	1377	1366	630
35°	1196	1217	1220	1216	1196	748
45°	986	1004	1006	1005	988	761
55°	737	750	751	750	737	658
65°	454	467	470	466	448	451
75°	189	196	194	192	179	203
85°	30	32	31	30	28	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1526.2	1524.2	1524.7	1525.2	1528.1
5°	1522.3	1520.8	1521.3	1521.3	1523.3
7.5°	1516.0	1515.5	1515.5	1515.0	1516.5
10°	1508.7	1507.7	1508.2	1507.7	1508.7
12.5°	1497.5	1497.5	1498.0	1496.6	1497.5
15°	1481.5	1482.5	1483.5	1481.0	1481.0
17.5°	1461.1	1463.6	1466.0	1461.6	1459.2
20°	1433.9	1439.8	1445.6	1438.8	1433.0
22.5°	1402.4	1412.1	1420.8	1410.2	1402.4
25°	1367.0	1379.1	1389.3	1376.7	1366.0
27.5°	1328.6	1342.2	1351.9	1341.2	1326.7
30°	1286.9	1303.4	1312.1	1301.9	1284.9
32.5°	1242.2	1261.6	1267.0	1260.6	1241.2
35°	1196.1	1217.4	1219.9	1215.5	1196.1
37.5°	1148.0	1168.4	1170.4	1167.9	1148.0
40°	1097.5	1116.5	1117.0	1117.0	1097.5
42.5°	1043.7	1062.1	1062.1	1061.6	1045.1
45°	986.4	1004.3	1005.8	1004.8	987.8
47.5°	929.6	943.2	945.6	943.7	928.6
50°	866.0	880.1	883.0	881.0	869.4
52.5°	802.9	816.0	818.9	817.5	804.4
55°	736.9	749.5	751.4	750.0	736.9
57.5°	673.3	681.5	683.5	680.6	664.1
60°	599.0	610.7	614.1	610.7	595.1
62.5°	527.2	539.8	542.7	537.9	521.3
65°	454.4	467.0	470.4	466.5	448.5
67.5°	385.4	394.7	397.6	393.2	376.7
70°	314.6	326.2	325.7	319.9	305.3
72.5°	244.7	260.7	257.8	254.4	238.3
75°	188.8	196.1	194.2	192.2	179.1
77.5°	134.9	143.7	138.8	139.3	128.2
80°	90.8	99.0	94.2	92.2	86.4
82.5°	57.8	61.2	60.2	59.2	53.9
85°	30.1	32.0	31.1	30.1	28.2
87.5°	11.7	12.6	11.7	11.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)