

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: P412833

Luminaire Tested: **24PD-30-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

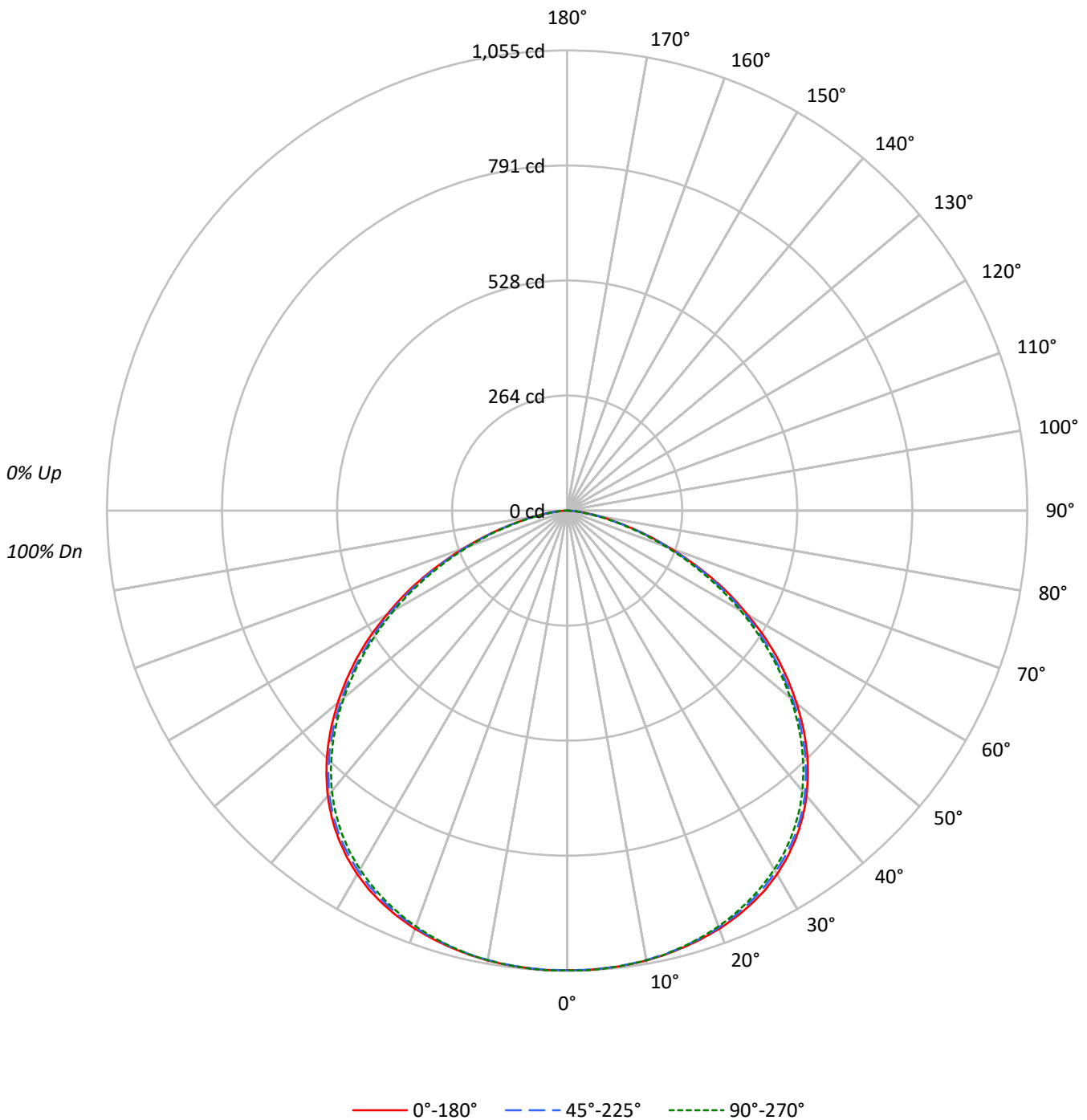
Test Method: LM-79-08  
Report Number: P412833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PP3-L850  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3067.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	1418	1418	1418
5°	1422	1422	1422
10°	1431	1429	1430
15°	1444	1441	1440
20°	1461	1456	1453
25°	1479	1472	1465
30°	1496	1485	1476
35°	1504	1495	1481
40°	1500	1491	1474
45°	1478	1464	1447
50°	1438	1415	1400
55°	1378	1345	1328
60°	1284	1262	1236
65°	1164	1141	1108
70°	994	976	944
75°	776	768	731
80°	573	549	518
85°	346	346	321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.3
10°-20°	292.6	9.5
20°-30°	457.4	14.9
30°-40°	568.4	18.5
40°-50°	592.3	19.3
50°-60°	513.9	16.8
60°-70°	353.4	11.5
70°-80°	159.5	5.2
80°-90°	29.2	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°	850.3	27.7
0°-40°	1418.7	46.3
0°-60°	2524.9	82.3
0°-90°	3067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1053	1052	1052	1053	100
15°	1036	1036	1035	1034	1034	293
25°	996	996	991	987	987	460
35°	916	916	910	905	902	572
45°	777	777	769	764	761	598
55°	588	584	574	567	566	524
65°	366	364	358	350	348	361
75°	149	150	148	144	141	163
85°	22	22	22	22	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1054.3	1054.3	1053.7	1052.8	1055.0
5°	1052.8	1053.1	1052.5	1051.6	1053.1
7.5°	1050.7	1051.0	1050.1	1049.1	1050.4
10°	1047.3	1047.0	1046.1	1045.5	1047.0
12.5°	1042.4	1042.1	1041.2	1040.6	1041.8
15°	1036.3	1036.3	1034.7	1033.8	1034.1
17.5°	1028.9	1028.9	1026.8	1024.6	1025.2
20°	1020.3	1020.0	1017.0	1014.8	1014.5
22.5°	1009.6	1009.6	1005.3	1002.5	1001.6
25°	996.4	996.1	991.2	987.2	986.6
27.5°	981.4	980.8	975.0	971.0	969.4
30°	962.7	962.1	956.0	951.7	949.8
32.5°	940.6	941.6	934.5	929.6	927.8
35°	915.5	915.5	910.0	904.8	901.7
37.5°	886.7	886.7	881.5	876.3	872.6
40°	853.9	854.2	848.7	842.3	839.2
42.5°	817.1	817.7	810.4	805.2	801.8
45°	777.0	777.3	769.3	763.5	760.7
47.5°	733.4	732.8	723.9	719.0	716.3
50°	686.9	685.6	675.8	671.2	668.8
52.5°	638.1	635.7	627.1	620.3	618.2
55°	587.6	584.2	573.5	566.7	566.1
57.5°	534.8	530.9	522.0	515.5	513.1
60°	477.2	476.3	468.9	461.3	459.4
62.5°	423.3	420.5	414.1	404.9	404.0
65°	365.6	364.1	358.3	349.7	347.9
67.5°	306.2	307.7	302.8	295.2	292.7
70°	252.6	253.5	248.0	240.9	240.0
72.5°	198.6	200.1	195.5	190.9	190.0
75°	149.3	149.9	147.7	143.7	140.7
77.5°	106.0	108.2	105.7	103.0	100.5
80°	73.9	70.5	70.8	69.6	66.8
82.5°	44.4	42.9	42.6	41.4	40.2
85°	22.4	22.1	22.4	22.1	20.8
87.5°	7.4	8.0	8.3	8.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)