

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: P412489

Luminaire Tested: **24PD-30-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

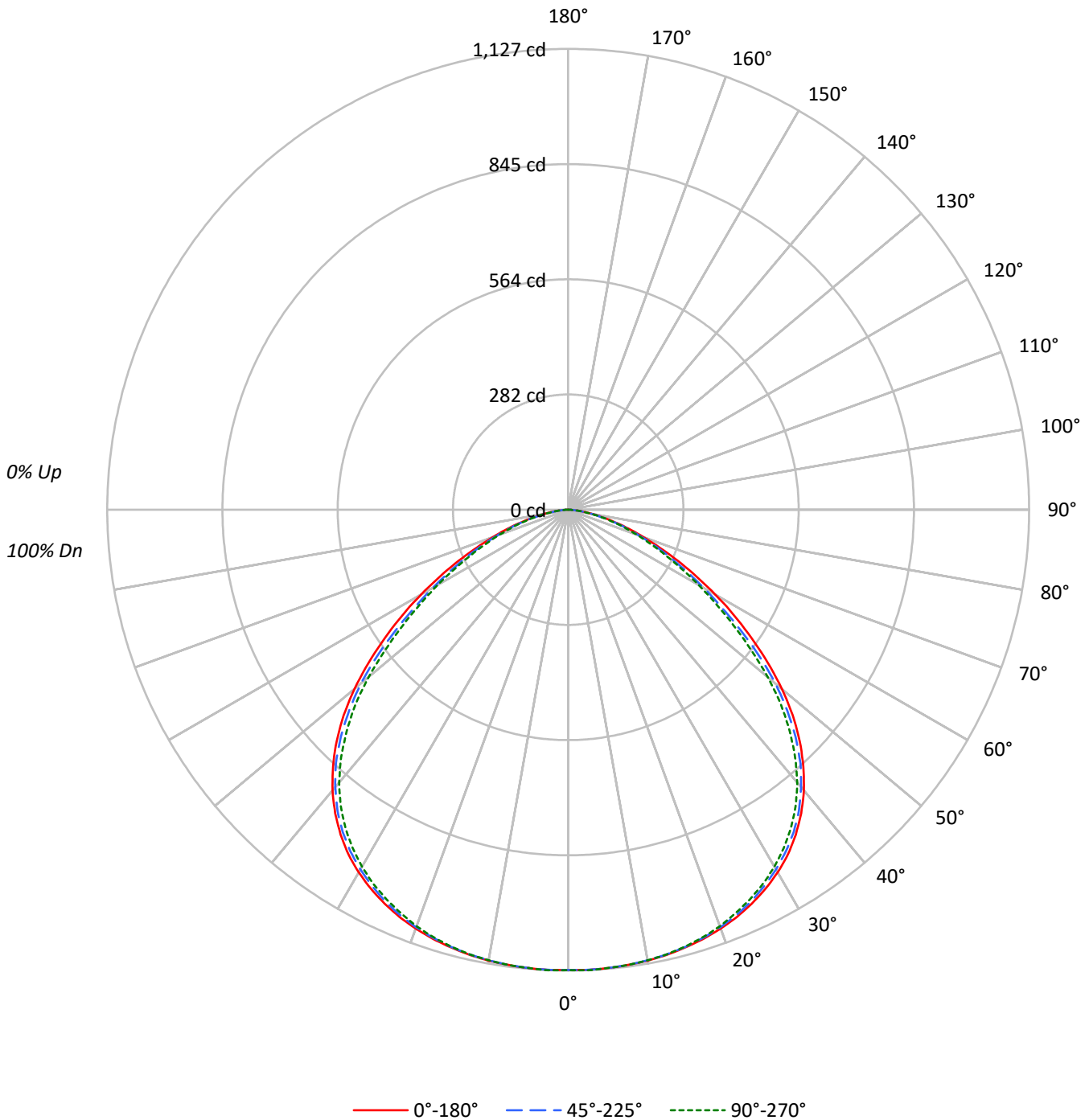
Test Method: LM-79-08  
Report Number: P412489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PB1-L835  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2996.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
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	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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

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

	0°	45°	90°
0°	1515	1515	1515
5°	1520	1520	1520
10°	1530	1529	1529
15°	1544	1542	1540
20°	1561	1556	1552
25°	1578	1570	1561
30°	1591	1578	1566
35°	1593	1579	1560
40°	1575	1556	1530
45°	1524	1496	1457
50°	1429	1384	1334
55°	1284	1208	1158
60°	1118	1029	989
65°	940	870	832
70°	767	728	699
75°	614	593	568
80°	472	435	423
85°	295	286	286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	3.6
10°-20°	312.9	10.4
20°-30°	487.4	16.3
30°-40°	599.7	20.0
40°-50°	602.3	20.1
50°-60°	464.2	15.5
60°-70°	275.6	9.2
70°-80°	122.7	4.1
80°-90°	24.0	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°	907.5	30.3
0°-40°	1507.2	50.3
0°-60°	2573.8	85.9
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1125	1126	1125	1124	1125	107
15°	1108	1108	1107	1105	1106	313
25°	1063	1062	1057	1052	1051	490
35°	970	968	962	953	950	606
45°	801	799	786	773	766	615
55°	547	537	515	499	494	489
65°	295	283	273	263	261	295
75°	118	116	114	110	109	128
85°	19	18	18	18	18	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1126.5	1126.2	1126.2	1125.0	1127.4
5°	1125.3	1125.6	1125.3	1124.1	1125.3
7.5°	1123.0	1123.2	1122.7	1121.5	1122.7
10°	1120.0	1120.0	1118.8	1118.2	1119.1
12.5°	1114.9	1114.9	1113.7	1112.8	1113.7
15°	1108.3	1108.3	1106.8	1105.0	1105.9
17.5°	1100.3	1100.3	1097.9	1095.5	1096.1
20°	1090.4	1090.1	1086.8	1083.6	1083.9
22.5°	1077.9	1077.6	1073.4	1069.5	1068.3
25°	1062.7	1062.4	1057.3	1052.5	1051.3
27.5°	1045.1	1043.9	1038.2	1032.8	1031.6
30°	1024.2	1023.3	1015.8	1010.4	1008.1
32.5°	1000.0	997.6	990.8	984.2	980.9
35°	969.9	968.4	961.5	953.4	949.6
37.5°	935.8	934.4	926.9	917.9	913.5
40°	896.5	895.3	886.0	876.8	871.1
42.5°	851.1	850.2	840.3	827.5	821.5
45°	800.7	798.6	786.0	772.9	765.7
47.5°	744.6	741.0	725.8	713.2	705.5
50°	682.5	677.7	661.3	645.2	637.1
52.5°	615.3	607.0	590.0	571.5	563.7
55°	547.3	536.9	514.8	499.3	493.6
57.5°	480.8	465.5	444.6	433.6	427.9
60°	415.4	398.7	382.3	371.5	367.7
62.5°	353.0	339.0	325.0	314.2	311.8
65°	295.4	282.6	273.4	262.9	261.4
67.5°	241.7	235.8	227.4	218.4	217.2
70°	194.9	192.5	185.0	179.6	177.6
72.5°	155.5	153.1	147.7	143.8	143.2
75°	118.2	115.8	114.0	110.1	109.2
77.5°	84.2	84.5	83.0	80.9	81.5
80°	60.9	57.3	56.1	54.9	54.6
82.5°	37.3	35.2	34.3	34.0	34.6
85°	19.1	18.2	18.5	17.6	18.5
87.5°	6.6	6.6	6.9	6.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)