

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: P412484

Luminaire Tested: **24PD-10-PB1-L930**

Issue Date: 9/15/2020



**Test Information**

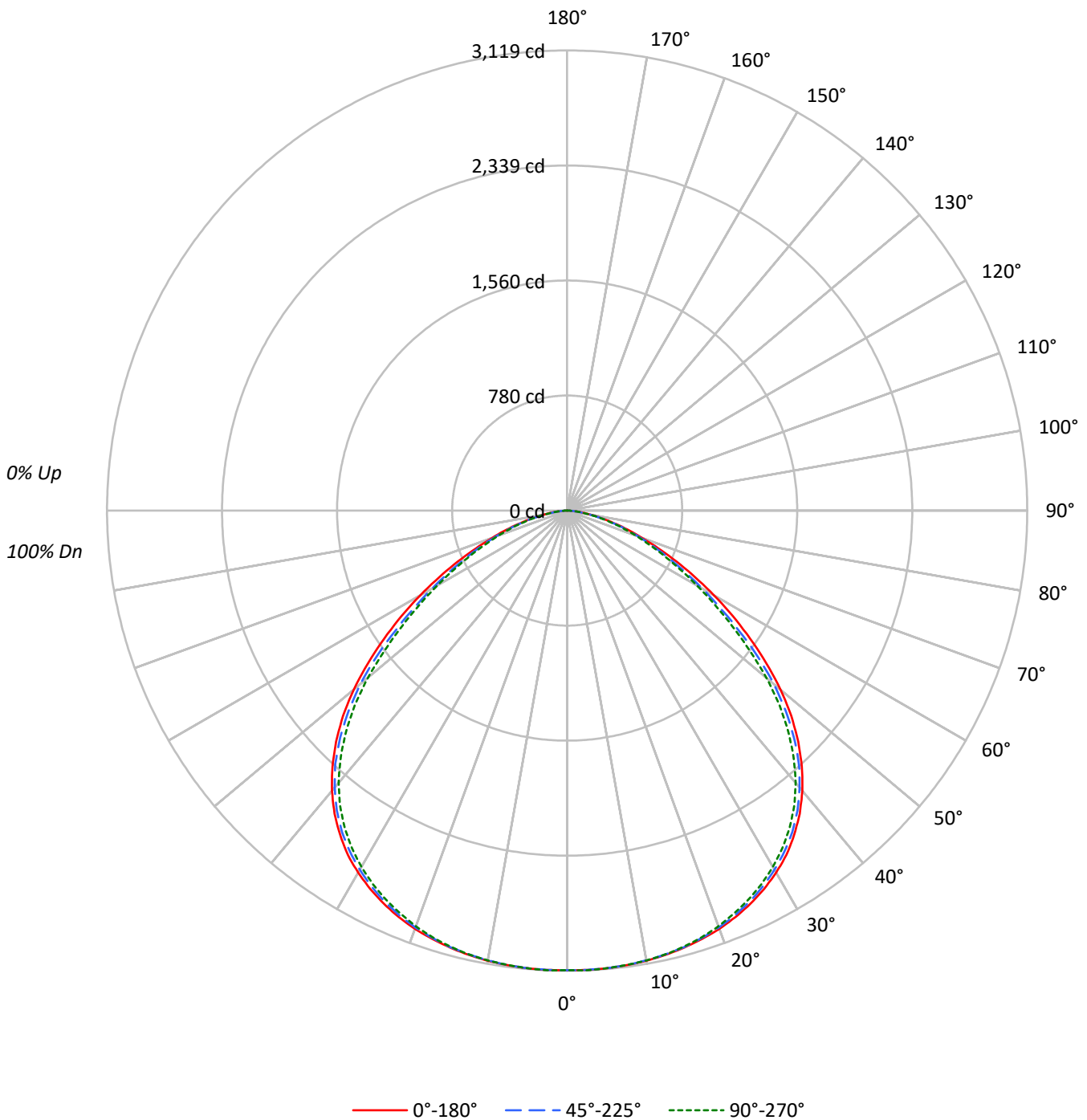
Test Method: LM-79-08  
Report Number: P412484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-10-PB1-L930  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8289.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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): 77.4  
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: P412484  
CATALOG NUMBER: 24PD-10-PB1-L930

### Luminous Intensity Polar Plot





TEST NUMBER: P412484

CATALOG NUMBER: 24PD-10-PB1-L930

**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°	4191	4191	4191
5°	4205	4205	4205
10°	4233	4229	4230
15°	4271	4266	4262
20°	4320	4306	4294
25°	4365	4343	4318
30°	4402	4366	4333
35°	4407	4369	4315
40°	4356	4305	4233
45°	4215	4138	4031
50°	3952	3830	3690
55°	3552	3341	3203
60°	3093	2846	2737
65°	2602	2408	2303
70°	2121	2014	1933
75°	1700	1640	1571
80°	1305	1203	1171
85°	815	790	790



TEST NUMBER: P412484

CATALOG NUMBER: 24PD-10-PB1-L930

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.6	3.6
10°-20°	865.7	10.4
20°-30°	1348.6	16.3
30°-40°	1659.1	20.0
40°-50°	1666.4	20.1
50°-60°	1284.4	15.5
60°-70°	762.5	9.2
70°-80°	339.5	4.1
80°-90°	66.3	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°	2510.9	30.3
0°-40°	4169.9	50.3
0°-60°	7120.8	85.9
0°-90°	8289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3115	3115	3115	3115	3115	
5°	3114	3114	3114	3110	3114	297
15°	3066	3066	3062	3057	3060	867
25°	2940	2939	2925	2912	2909	1356
35°	2683	2679	2660	2638	2627	1675
45°	2215	2209	2175	2138	2119	1700
55°	1514	1485	1424	1381	1366	1354
65°	817	782	756	727	723	817
75°	327	320	315	305	302	354
85°	53	50	51	49	51	70
90°	0	0	0	0	0	



TEST NUMBER: P412484

CATALOG NUMBER: 24PD-10-PB1-L930

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3115.1	3115.1	3115.1	3115.1	3115.1
2.5°	3116.8	3115.9	3115.9	3112.6	3119.2
5°	3113.5	3114.3	3113.5	3110.2	3113.5
7.5°	3106.9	3107.7	3106.0	3102.7	3106.0
10°	3098.6	3098.6	3095.3	3093.6	3096.1
12.5°	3084.6	3084.6	3081.3	3078.8	3081.3
15°	3066.4	3066.4	3062.3	3057.3	3059.8
17.5°	3044.1	3044.1	3037.5	3030.9	3032.5
20°	3016.9	3016.0	3007.0	2997.9	2998.7
22.5°	2982.2	2981.4	2969.8	2959.1	2955.8
25°	2940.1	2939.3	2925.2	2912.0	2908.7
27.5°	2891.4	2888.1	2872.4	2857.5	2854.2
30°	2833.6	2831.1	2810.5	2795.6	2789.0
32.5°	2766.7	2760.1	2741.1	2722.9	2713.9
35°	2683.3	2679.2	2660.2	2637.9	2627.2
37.5°	2589.2	2585.1	2564.4	2539.6	2527.3
40°	2480.2	2476.9	2451.3	2425.7	2410.0
42.5°	2354.7	2352.2	2325.0	2289.5	2273.0
45°	2215.2	2209.4	2174.7	2138.4	2118.6
47.5°	2060.0	2050.0	2007.9	1973.3	1951.8
50°	1888.2	1875.0	1829.6	1785.0	1762.7
52.5°	1702.5	1679.3	1632.3	1581.1	1559.6
55°	1514.2	1485.3	1424.2	1381.3	1365.6
57.5°	1330.1	1288.0	1230.2	1199.6	1184.0
60°	1149.3	1103.0	1057.6	1027.9	1017.2
62.5°	976.7	937.9	899.1	869.4	862.8
65°	817.4	781.9	756.3	727.4	723.3
67.5°	668.8	652.2	629.1	604.4	601.1
70°	539.1	532.5	511.9	497.0	491.3
72.5°	430.2	423.5	408.7	398.0	396.3
75°	327.0	320.3	315.4	304.7	302.2
77.5°	232.8	233.7	229.5	223.7	225.4
80°	168.4	158.5	155.2	151.9	151.1
82.5°	103.2	97.4	94.9	94.1	95.8
85°	52.8	50.4	51.2	48.7	51.2
87.5°	18.2	18.2	19.0	18.2	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)