

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: P412486

Luminaire Tested: **24PD-10-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

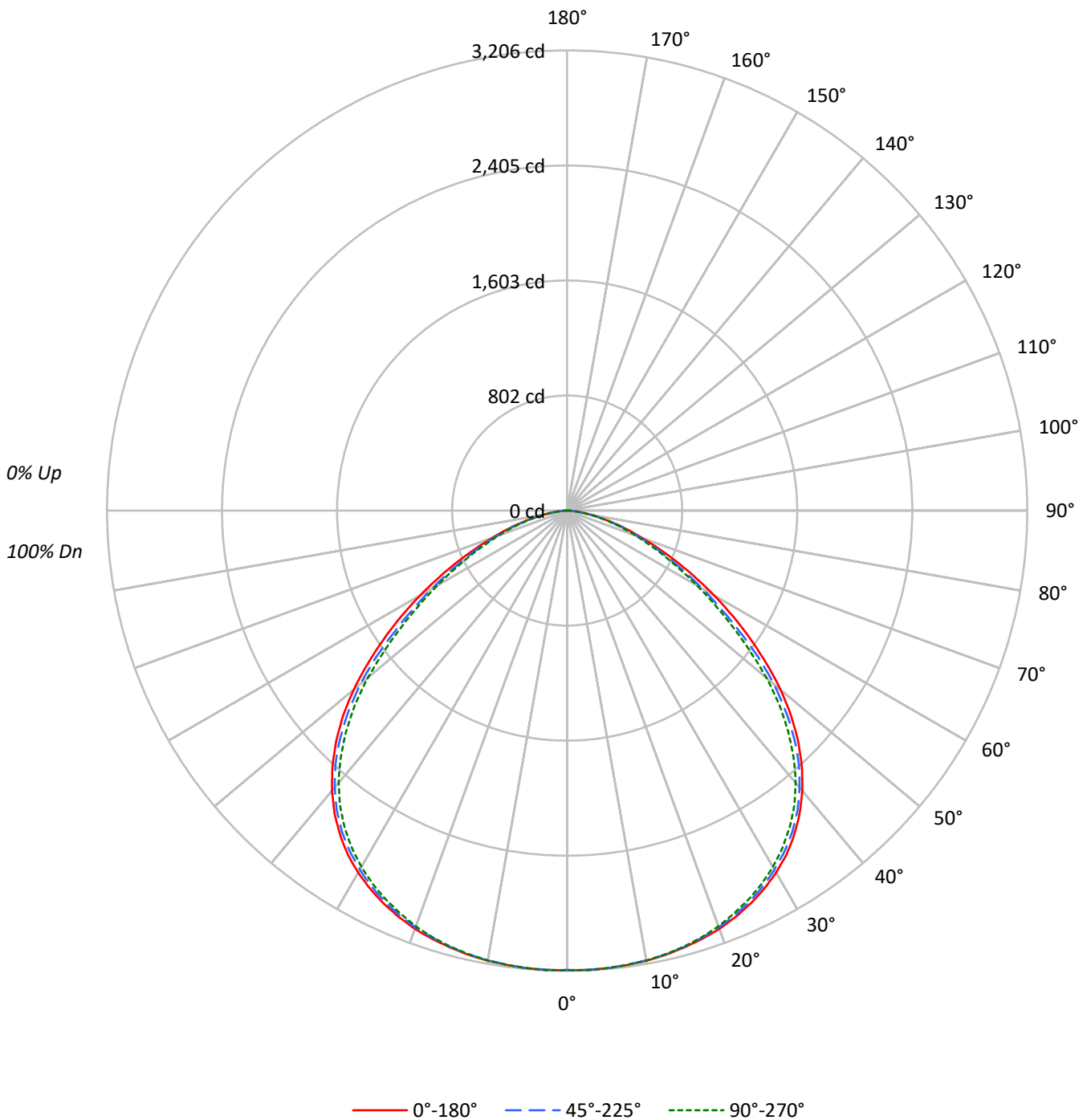
Test Method: LM-79-08  
Report Number: P412486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-10-PB1-L940  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8519.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

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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°	4308	4308	4308
5°	4322	4322	4322
10°	4351	4346	4347
15°	4390	4384	4380
20°	4440	4425	4413
25°	4486	4463	4438
30°	4525	4488	4453
35°	4530	4491	4435
40°	4477	4425	4350
45°	4332	4253	4143
50°	4062	3936	3792
55°	3651	3434	3292
60°	3179	2925	2813
65°	2675	2475	2366
70°	2180	2070	1986
75°	1747	1685	1615
80°	1341	1236	1203
85°	838	812	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.8	3.6
10°-20°	889.7	10.4
20°-30°	1386.0	16.3
30°-40°	1705.1	20.0
40°-50°	1712.7	20.1
50°-60°	1320.0	15.5
60°-70°	783.6	9.2
70°-80°	348.9	4.1
80°-90°	68.1	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°	2580.5	30.3
0°-40°	4285.6	50.3
0°-60°	7318.3	85.9
0°-90°	8519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3202	3202	3202	3202	3202	
5°	3200	3201	3200	3196	3200	305
15°	3152	3152	3147	3142	3145	891
25°	3022	3021	3006	2993	2989	1394
35°	2758	2754	2734	2711	2700	1722
45°	2277	2271	2235	2198	2177	1747
55°	1556	1526	1464	1420	1404	1392
65°	840	804	777	748	743	839
75°	336	329	324	313	311	364
85°	54	52	53	50	53	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3201.5	3201.5	3201.5	3201.5	3201.5
2.5°	3203.2	3202.4	3202.4	3199.0	3205.8
5°	3199.9	3200.7	3199.9	3196.5	3199.9
7.5°	3193.1	3193.9	3192.2	3188.8	3192.2
10°	3184.6	3184.6	3181.2	3179.5	3182.0
12.5°	3170.2	3170.2	3166.8	3164.2	3166.8
15°	3151.5	3151.5	3147.2	3142.2	3144.7
17.5°	3128.6	3128.6	3121.8	3115.0	3116.7
20°	3100.6	3099.7	3090.4	3081.1	3081.9
22.5°	3064.9	3064.1	3052.2	3041.2	3037.8
25°	3021.7	3020.8	3006.4	2992.8	2989.4
27.5°	2971.6	2968.2	2952.1	2936.8	2933.4
30°	2912.2	2909.7	2888.4	2873.2	2866.4
32.5°	2843.5	2836.7	2817.2	2798.5	2789.2
35°	2757.8	2753.5	2734.0	2711.1	2700.1
37.5°	2661.0	2656.8	2635.6	2610.1	2597.4
40°	2549.0	2545.6	2519.3	2493.0	2476.9
42.5°	2420.0	2417.5	2389.5	2353.0	2336.0
45°	2276.6	2270.7	2235.1	2197.7	2177.4
47.5°	2117.1	2106.9	2063.7	2028.0	2006.0
50°	1940.6	1927.0	1880.4	1834.5	1811.6
52.5°	1749.7	1725.9	1677.6	1625.0	1602.9
55°	1556.2	1526.5	1463.7	1419.6	1403.5
57.5°	1367.0	1323.7	1264.3	1232.9	1216.8
60°	1181.2	1133.7	1087.0	1056.4	1045.4
62.5°	1003.8	963.9	924.1	893.5	886.7
65°	840.1	803.6	777.3	747.6	743.3
67.5°	687.3	670.3	646.6	621.1	617.7
70°	554.1	547.3	526.1	510.8	504.9
72.5°	442.1	435.3	420.0	409.0	407.3
75°	336.0	329.2	324.1	313.1	310.6
77.5°	239.3	240.1	235.9	230.0	231.7
80°	173.1	162.9	159.5	156.1	155.3
82.5°	106.1	100.1	97.6	96.7	98.4
85°	54.3	51.8	52.6	50.1	52.6
87.5°	18.7	18.7	19.5	18.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)