

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: P412609

Luminaire Tested: **24PD-95-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

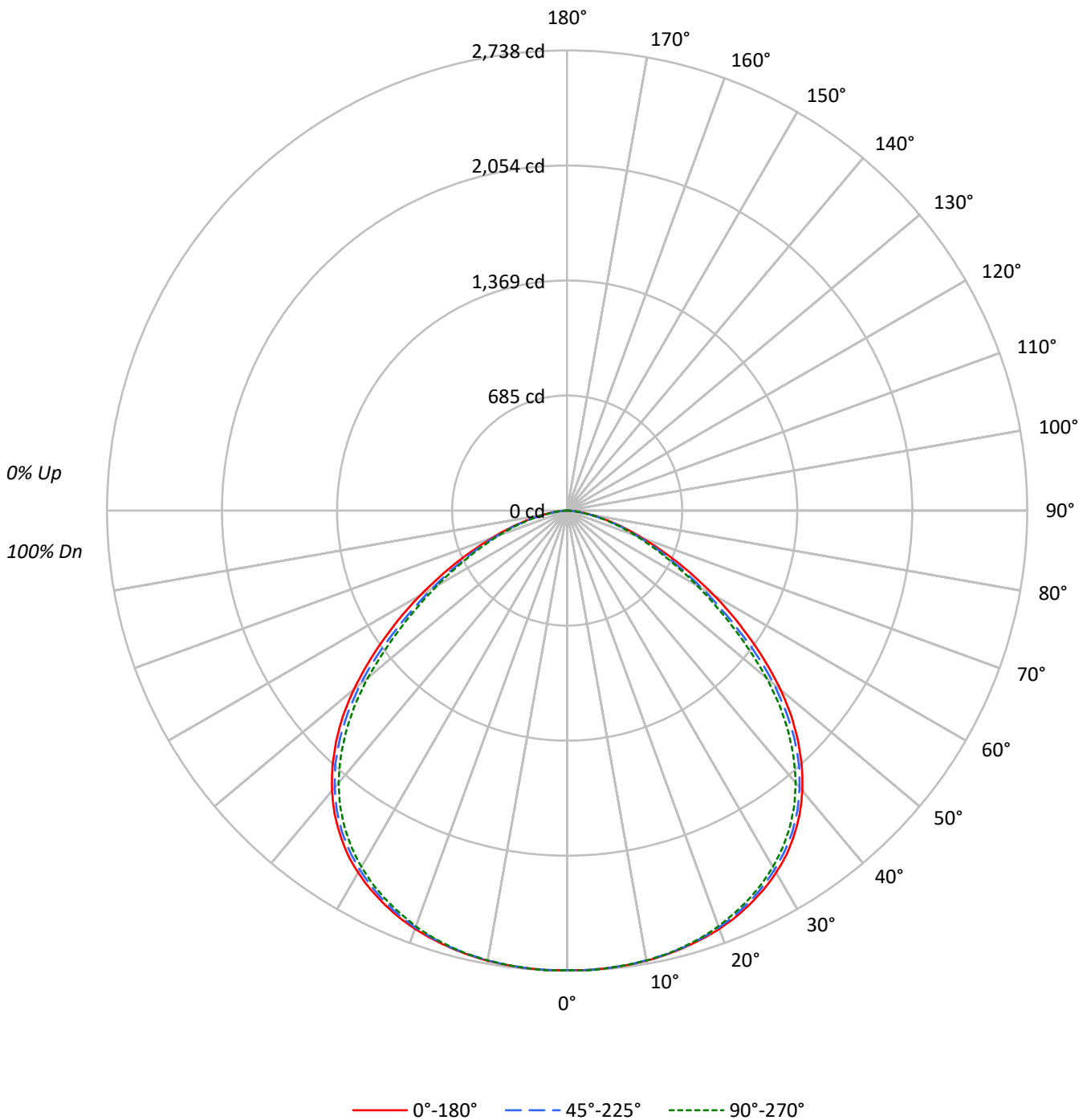
Test Method: LM-79-08  
Report Number: P412609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-95-PB1-L927  
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7277.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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): 73  
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°	3680	3680	3680
5°	3692	3692	3692
10°	3717	3713	3714
15°	3750	3745	3742
20°	3792	3780	3769
25°	3832	3813	3791
30°	3865	3833	3804
35°	3869	3836	3788
40°	3824	3780	3716
45°	3700	3633	3539
50°	3470	3362	3239
55°	3118	2933	2812
60°	2715	2499	2403
65°	2285	2114	2022
70°	1862	1768	1697
75°	1492	1439	1379
80°	1146	1056	1027
85°	716	693	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.4	3.6
10°-20°	760.0	10.4
20°-30°	1184.0	16.3
30°-40°	1456.5	20.0
40°-50°	1463.0	20.1
50°-60°	1127.6	15.5
60°-70°	669.4	9.2
70°-80°	298.0	4.1
80°-90°	58.2	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°	2204.3	30.3
0°-40°	3660.8	50.3
0°-60°	6251.4	85.9
0°-90°	7277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7277.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2735	2735	2735	2735	2735	
5°	2733	2734	2733	2730	2733	260
15°	2692	2692	2688	2684	2686	761
25°	2581	2580	2568	2556	2554	1190
35°	2356	2352	2335	2316	2306	1471
45°	1945	1940	1909	1877	1860	1493
55°	1329	1304	1250	1213	1199	1189
65°	718	686	664	639	635	717
75°	287	281	277	268	265	311
85°	46	44	45	43	45	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2734.8	2734.8	2734.8	2734.8	2734.8
2.5°	2736.2	2735.5	2735.5	2732.6	2738.4
5°	2733.3	2734.1	2733.3	2730.4	2733.3
7.5°	2727.5	2728.3	2726.8	2723.9	2726.8
10°	2720.3	2720.3	2717.4	2715.9	2718.1
12.5°	2708.0	2708.0	2705.1	2702.9	2705.1
15°	2692.0	2692.0	2688.4	2684.1	2686.2
17.5°	2672.5	2672.5	2666.7	2660.9	2662.3
20°	2648.5	2647.8	2639.8	2631.9	2632.6
22.5°	2618.1	2617.4	2607.2	2597.8	2594.9
25°	2581.1	2580.4	2568.1	2556.5	2553.6
27.5°	2538.4	2535.5	2521.7	2508.6	2505.7
30°	2487.6	2485.4	2467.3	2454.3	2448.5
32.5°	2428.9	2423.1	2406.4	2390.5	2382.5
35°	2355.7	2352.1	2335.4	2315.8	2306.4
37.5°	2273.1	2269.4	2251.3	2229.6	2218.7
40°	2177.4	2174.5	2152.0	2129.6	2115.8
42.5°	2067.2	2065.0	2041.1	2010.0	1995.5
45°	1944.7	1939.6	1909.2	1877.3	1859.9
47.5°	1808.5	1799.8	1762.8	1732.3	1713.5
50°	1657.7	1646.1	1606.2	1567.1	1547.5
52.5°	1494.6	1474.3	1433.0	1388.1	1369.2
55°	1329.3	1304.0	1250.3	1212.6	1198.9
57.5°	1167.7	1130.7	1080.0	1053.2	1039.4
60°	1009.0	968.4	928.5	902.4	893.0
62.5°	857.5	823.4	789.3	763.2	757.4
65°	717.6	686.4	663.9	638.6	635.0
67.5°	587.1	572.6	552.3	530.6	527.7
70°	473.3	467.5	449.4	436.3	431.3
72.5°	377.6	371.8	358.8	349.4	347.9
75°	287.0	281.2	276.9	267.5	265.3
77.5°	204.4	205.1	201.5	196.4	197.9
80°	147.9	139.2	136.3	133.4	132.6
82.5°	90.6	85.5	83.4	82.6	84.1
85°	46.4	44.2	44.9	42.8	44.9
87.5°	15.9	15.9	16.7	15.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)