

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: P412612

Luminaire Tested: **24PD-95-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

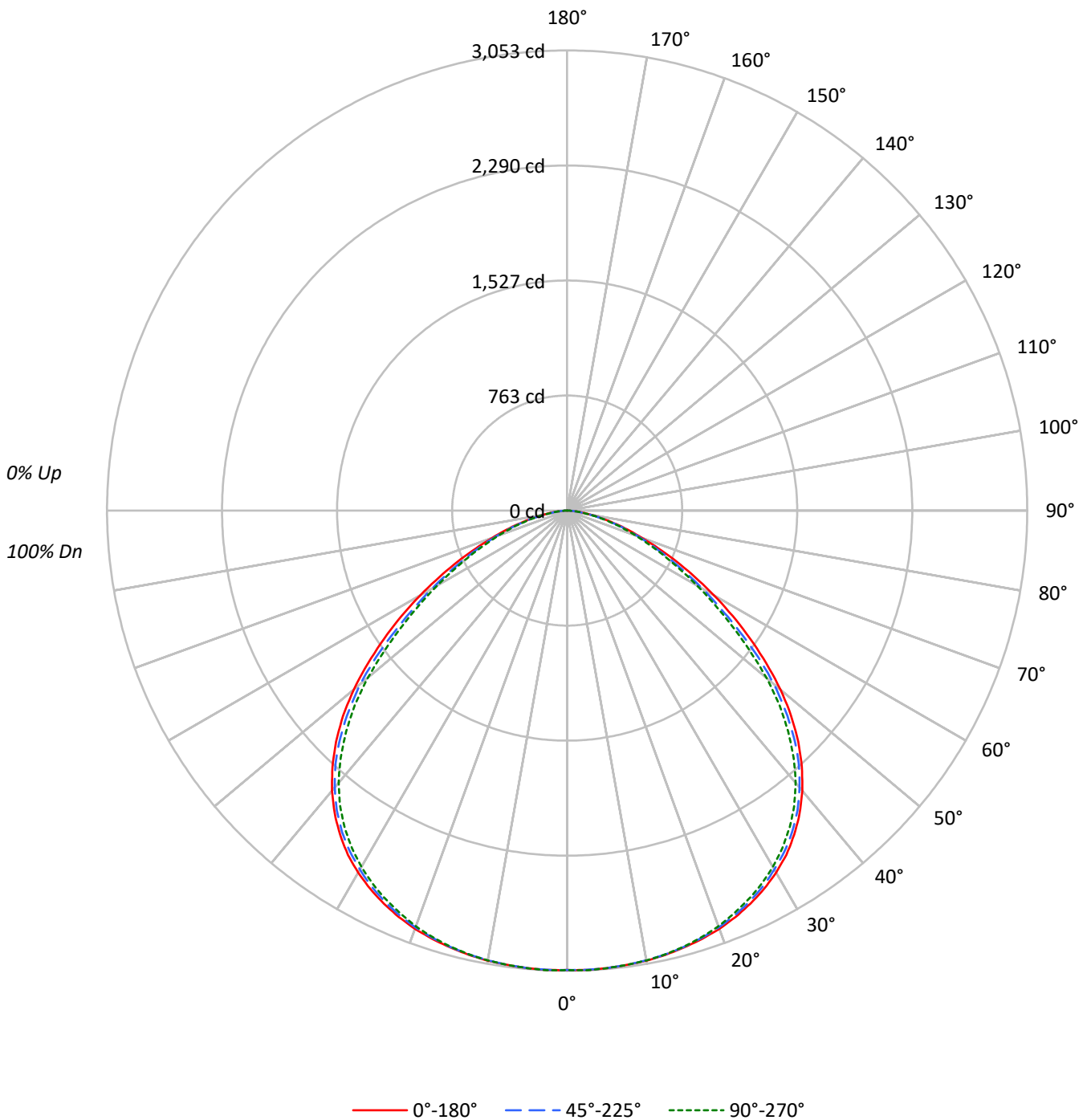
Test Method: LM-79-08  
Report Number: P412612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-95-PB1-L940  
Description: 9500 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: 8112.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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): 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°	4102	4102	4102
5°	4115	4115	4115
10°	4143	4139	4140
15°	4180	4175	4171
20°	4227	4213	4202
25°	4272	4250	4226
30°	4308	4273	4240
35°	4313	4276	4223
40°	4263	4214	4143
45°	4125	4050	3945
50°	3868	3748	3611
55°	3476	3270	3135
60°	3027	2785	2679
65°	2547	2356	2253
70°	2076	1971	1891
75°	1664	1605	1537
80°	1277	1177	1146
85°	798	773	773



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.2	3.6
10°-20°	847.2	10.4
20°-30°	1319.8	16.3
30°-40°	1623.6	20.0
40°-50°	1630.9	20.1
50°-60°	1256.9	15.5
60°-70°	746.2	9.2
70°-80°	332.2	4.1
80°-90°	64.9	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°	2457.3	30.3
0°-40°	4080.9	50.3
0°-60°	6968.7	85.9
0°-90°	8112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3049	3049	3049	3049	3049	
5°	3047	3048	3047	3044	3047	290
15°	3001	3001	2997	2992	2994	849
25°	2877	2876	2863	2850	2847	1327
35°	2626	2622	2603	2582	2571	1640
45°	2168	2162	2128	2093	2073	1664
55°	1482	1454	1394	1352	1336	1325
65°	800	765	740	712	708	799
75°	320	314	309	298	296	346
85°	52	49	50	48	50	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3048.6	3048.6	3048.6	3048.6	3048.6
2.5°	3050.2	3049.4	3049.4	3046.2	3052.6
5°	3047.0	3047.8	3047.0	3043.7	3047.0
7.5°	3040.5	3041.3	3039.7	3036.5	3039.7
10°	3032.4	3032.4	3029.2	3027.6	3030.0
12.5°	3018.7	3018.7	3015.5	3013.0	3015.5
15°	3000.9	3000.9	2996.9	2992.0	2994.5
17.5°	2979.1	2979.1	2972.6	2966.2	2967.8
20°	2952.4	2951.6	2942.7	2933.9	2934.7
22.5°	2918.5	2917.7	2906.4	2895.9	2892.6
25°	2877.3	2876.5	2862.8	2849.8	2846.6
27.5°	2829.6	2826.4	2811.0	2796.5	2793.3
30°	2773.1	2770.6	2750.4	2735.9	2729.4
32.5°	2707.6	2701.2	2682.6	2664.8	2655.9
35°	2626.0	2622.0	2603.4	2581.6	2571.1
37.5°	2533.9	2529.9	2509.7	2485.4	2473.3
40°	2427.2	2424.0	2399.0	2373.9	2358.6
42.5°	2304.4	2302.0	2275.3	2240.6	2224.4
45°	2167.9	2162.2	2128.3	2092.7	2073.3
47.5°	2016.0	2006.3	1965.1	1931.1	1910.1
50°	1847.9	1835.0	1790.5	1746.9	1725.1
52.5°	1666.1	1643.5	1597.4	1547.3	1526.3
55°	1481.9	1453.6	1393.8	1351.8	1336.4
57.5°	1301.7	1260.5	1203.9	1174.0	1158.7
60°	1124.7	1079.5	1035.1	1006.0	995.5
62.5°	955.9	917.9	879.9	850.8	844.4
65°	799.9	765.2	740.1	711.9	707.8
67.5°	654.5	638.3	615.7	591.5	588.2
70°	527.6	521.2	501.0	486.4	480.8
72.5°	421.0	414.5	400.0	389.5	387.8
75°	320.0	313.5	308.7	298.2	295.7
77.5°	227.9	228.7	224.6	219.0	220.6
80°	164.8	155.1	151.9	148.7	147.9
82.5°	101.0	95.3	92.9	92.1	93.7
85°	51.7	49.3	50.1	47.7	50.1
87.5°	17.8	17.8	18.6	17.8	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)