

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: P413292

Luminaire Tested: **24PD-95-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

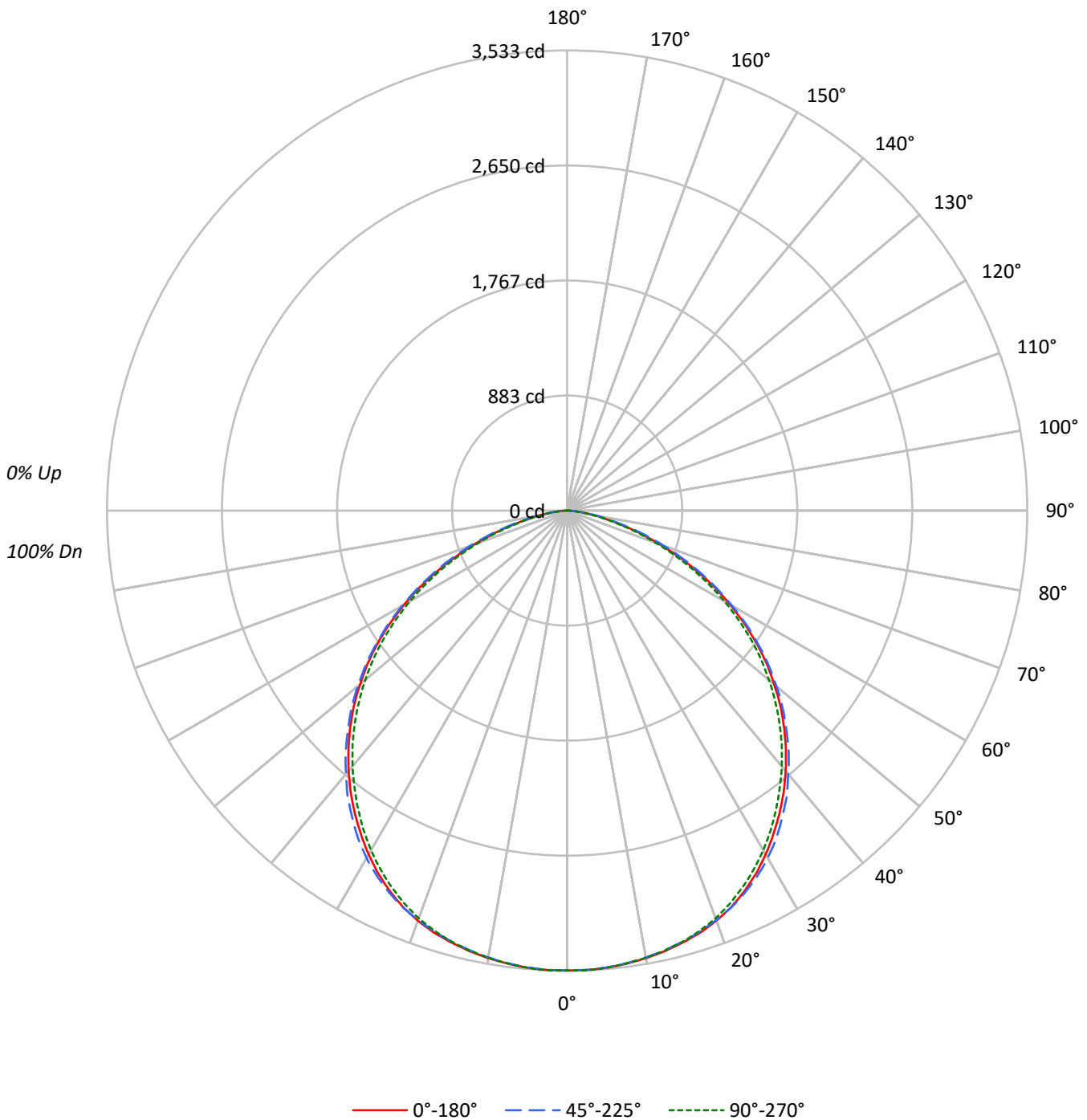
Test Method: LM-79-08  
Report Number: P413292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-95-PC3-L850  
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9651.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	4751	4751	4751
5°	4757	4754	4758
10°	4767	4760	4764
15°	4782	4773	4774
20°	4798	4791	4770
25°	4784	4802	4735
30°	4736	4787	4677
35°	4667	4726	4596
40°	4585	4640	4503
45°	4481	4530	4388
50°	4342	4392	4236
55°	4164	4201	4040
60°	3887	3932	3753
65°	3503	3590	3366
70°	2974	3105	2855
75°	2303	2471	2196
80°	1712	1788	1554
85°	1057	1133	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.9	3.5
10°-20°	968.3	10.0
20°-30°	1482.9	15.4
30°-40°	1783.9	18.5
40°-50°	1819.1	18.8
50°-60°	1577.0	16.3
60°-70°	1093.3	11.3
70°-80°	499.3	5.2
80°-90°	92.2	1.0
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°	2786.1	28.9
0°-40°	4570.0	47.4
0°-60°	7966.1	82.5
0°-90°	9651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3531	3531	3531	3531	3531	
5°	3522	3522	3520	3518	3523	335
15°	3433	3432	3426	3423	3427	970
25°	3223	3232	3234	3206	3190	1484
35°	2841	2872	2878	2840	2798	1777
45°	2355	2384	2381	2348	2306	1815
55°	1775	1786	1791	1747	1722	1582
65°	1100	1124	1128	1090	1057	1088
75°	443	468	475	460	422	485
85°	68	70	73	69	64	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3530.8	3530.8	3530.8	3530.8	3530.8
2.5°	3530.8	3530.8	3528.9	3526.9	3532.8
5°	3522.0	3522.0	3520.1	3518.1	3523.0
7.5°	3508.3	3507.4	3505.4	3503.4	3506.4
10°	3488.8	3487.8	3483.9	3482.9	3486.8
12.5°	3464.3	3463.3	3457.5	3457.5	3460.4
15°	3433.0	3432.0	3426.2	3423.2	3427.2
17.5°	3397.8	3396.8	3390.0	3382.2	3384.1
20°	3350.9	3350.9	3346.0	3334.2	3331.3
22.5°	3294.1	3297.1	3297.1	3274.6	3265.8
25°	3222.7	3231.5	3234.5	3206.1	3189.5
27.5°	3141.6	3155.3	3163.1	3126.9	3105.4
30°	3048.6	3071.1	3080.9	3041.8	3010.5
32.5°	2946.9	2975.3	2987.0	2948.9	2908.8
35°	2841.3	2871.6	2877.5	2840.3	2798.3
37.5°	2728.8	2760.1	2767.9	2734.7	2682.8
40°	2610.5	2641.8	2641.8	2614.4	2563.5
42.5°	2485.3	2518.5	2517.5	2484.3	2438.3
45°	2355.2	2384.5	2380.6	2348.3	2306.3
47.5°	2221.2	2239.8	2244.7	2206.5	2166.4
50°	2074.5	2093.1	2098.0	2054.9	2023.6
52.5°	1929.7	1941.5	1948.3	1898.4	1875.9
55°	1775.2	1786.0	1790.8	1746.8	1722.4
57.5°	1611.9	1625.6	1631.4	1587.4	1560.0
60°	1444.6	1459.3	1461.2	1420.2	1394.7
62.5°	1274.4	1294.0	1297.9	1256.8	1226.5
65°	1100.3	1123.8	1127.7	1089.6	1057.3
67.5°	926.2	957.5	958.5	927.2	889.1
70°	756.0	790.3	789.3	762.9	725.7
72.5°	593.7	625.0	631.8	607.4	571.2
75°	443.1	467.5	475.3	459.7	422.5
77.5°	314.9	337.4	344.3	329.6	302.2
80°	221.0	222.0	230.8	219.1	200.5
82.5°	136.9	135.0	137.9	133.0	122.3
85°	68.5	70.4	73.4	69.4	63.6
87.5°	23.5	24.5	26.4	26.4	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)