

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: P412914

Luminaire Tested: **24PD-75-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

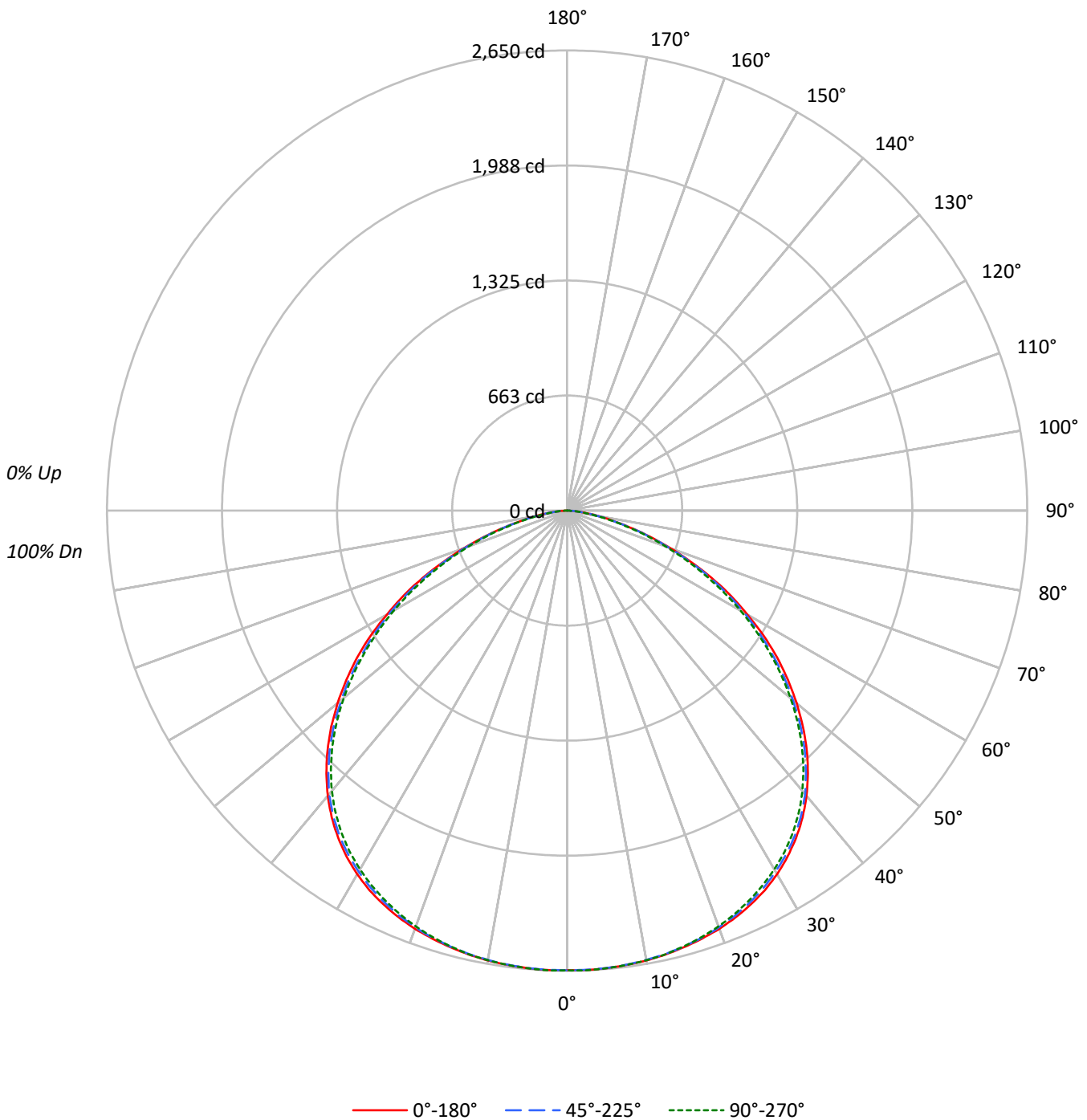
Test Method: LM-79-08  
Report Number: P412914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PP3-L850  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7704.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56.3  
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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	3562	3562	3562
5°	3572	3571	3573
10°	3594	3590	3593
15°	3626	3620	3618
20°	3670	3658	3649
25°	3716	3696	3679
30°	3757	3731	3707
35°	3777	3755	3720
40°	3767	3744	3702
45°	3714	3677	3636
50°	3611	3553	3516
55°	3462	3379	3336
60°	3226	3170	3106
65°	2924	2865	2782
70°	2496	2450	2371
75°	1949	1929	1837
80°	1437	1378	1300
85°	868	868	809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.9	3.3
10°-20°	735.0	9.5
20°-30°	1148.9	14.9
30°-40°	1427.9	18.5
40°-50°	1487.7	19.3
50°-60°	1290.9	16.8
60°-70°	887.7	11.5
70°-80°	400.6	5.2
80°-90°	73.4	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°	2135.8	27.7
0°-40°	3563.7	46.3
0°-60°	6342.4	82.3
0°-90°	7704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2648	2648	2648	2648	2648	
5°	2645	2645	2644	2642	2645	252
15°	2603	2603	2599	2597	2598	736
25°	2503	2502	2490	2480	2478	1155
35°	2300	2300	2286	2273	2265	1437
45°	1952	1952	1932	1918	1911	1502
55°	1476	1467	1440	1424	1422	1315
65°	918	915	900	878	874	906
75°	375	376	371	361	353	408
85°	56	55	56	55	52	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	2648.4	2648.4	2646.9	2644.6	2649.9
5°	2644.6	2645.3	2643.8	2641.5	2645.3
7.5°	2639.2	2639.9	2637.6	2635.3	2638.4
10°	2630.7	2629.9	2627.6	2626.1	2629.9
12.5°	2618.4	2617.6	2615.3	2613.8	2616.8
15°	2603.0	2603.0	2599.1	2596.8	2597.6
17.5°	2584.5	2584.5	2579.1	2573.7	2575.3
20°	2563.0	2562.2	2554.5	2549.1	2548.3
22.5°	2536.0	2536.0	2525.2	2518.3	2516.0
25°	2502.9	2502.1	2489.8	2479.8	2478.3
27.5°	2465.2	2463.6	2449.0	2439.0	2435.2
30°	2418.2	2416.7	2401.3	2390.5	2385.9
32.5°	2362.8	2365.1	2347.4	2335.1	2330.4
35°	2299.7	2299.7	2285.8	2272.7	2265.0
37.5°	2227.3	2227.3	2214.2	2201.1	2191.9
40°	2144.9	2145.7	2131.8	2115.6	2107.9
42.5°	2052.5	2054.1	2035.6	2022.5	2014.0
45°	1951.7	1952.4	1932.4	1917.8	1910.9
47.5°	1842.3	1840.8	1818.5	1806.2	1799.2
50°	1725.3	1722.2	1697.6	1686.1	1679.9
52.5°	1602.9	1596.7	1575.2	1558.3	1552.9
55°	1475.9	1467.4	1440.5	1423.5	1422.0
57.5°	1343.5	1333.4	1311.1	1294.9	1288.8
60°	1198.7	1196.4	1177.9	1158.7	1154.1
62.5°	1063.2	1056.3	1040.1	1017.0	1014.7
65°	918.5	914.6	900.0	878.4	873.8
67.5°	769.1	773.0	760.6	741.4	735.2
70°	634.4	636.7	622.8	605.1	602.8
72.5°	498.9	502.7	491.2	479.6	477.3
75°	374.9	376.5	371.1	361.1	353.4
77.5°	266.4	271.8	265.6	258.7	252.5
80°	185.5	177.1	177.8	174.8	167.8
82.5°	111.6	107.8	107.0	103.9	100.9
85°	56.2	55.4	56.2	55.4	52.4
87.5°	18.5	20.0	20.8	20.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)