

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: P412920

Luminaire Tested: **24PD-80-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

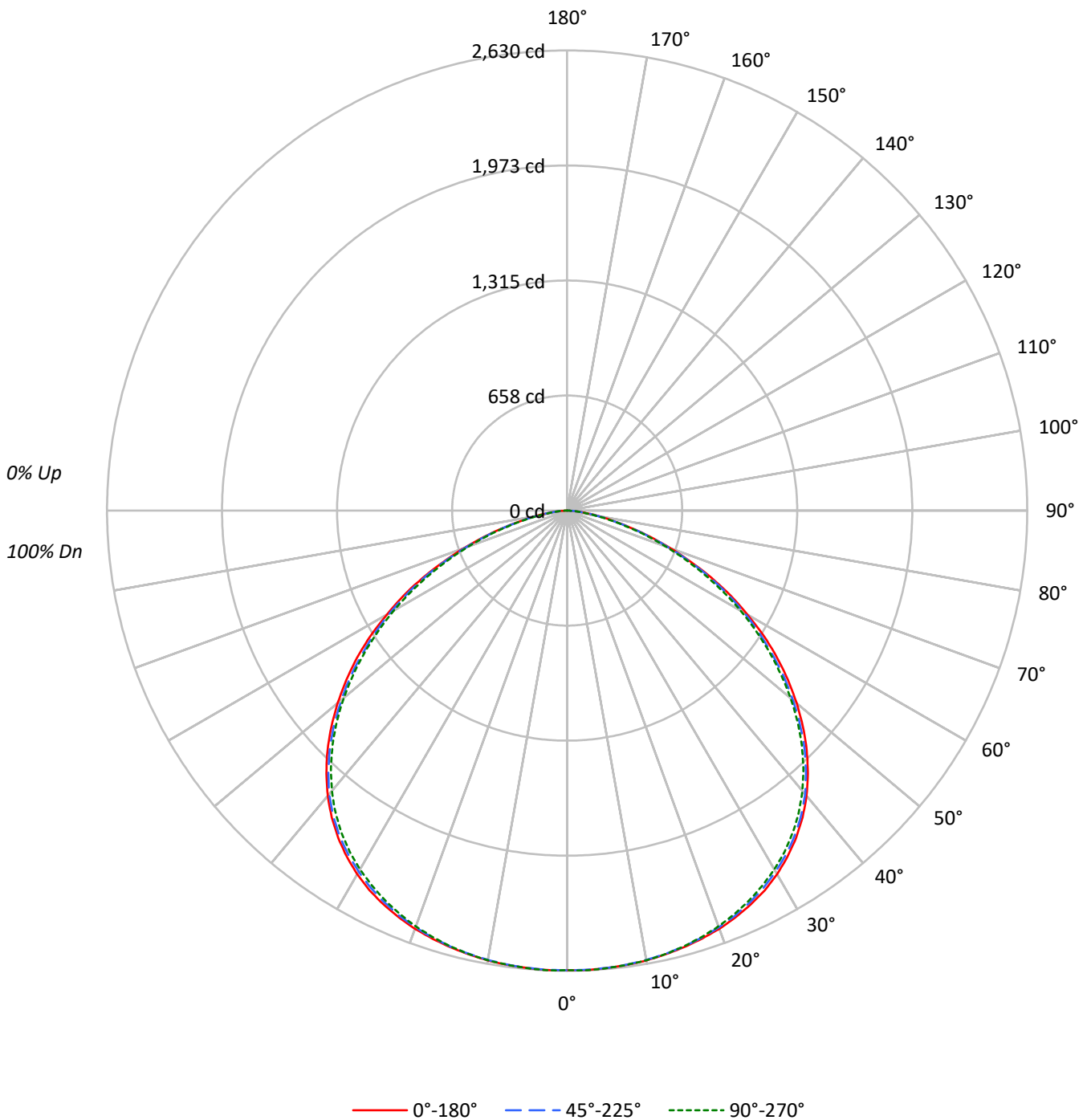
Test Method: LM-79-08  
Report Number: P412920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-80-PP3-L830  
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7645.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 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): 60.3  
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	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					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°	3535	3535	3535
5°	3544	3543	3546
10°	3567	3562	3566
15°	3598	3593	3591
20°	3642	3630	3621
25°	3687	3668	3651
30°	3728	3702	3678
35°	3748	3726	3692
40°	3739	3716	3674
45°	3685	3649	3608
50°	3584	3526	3489
55°	3436	3353	3310
60°	3201	3145	3082
65°	2902	2843	2761
70°	2476	2432	2353
75°	1934	1914	1823
80°	1426	1368	1290
85°	861	861	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.0	3.3
10°-20°	729.4	9.5
20°-30°	1140.1	14.9
30°-40°	1416.9	18.5
40°-50°	1476.3	19.3
50°-60°	1281.0	16.8
60°-70°	880.9	11.5
70°-80°	397.5	5.2
80°-90°	72.8	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°	2119.5	27.7
0°-40°	3536.4	46.3
0°-60°	6293.8	82.3
0°-90°	7645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2627	2627	2627	2627	2627	
5°	2624	2625	2624	2621	2625	250
15°	2583	2583	2579	2577	2578	731
25°	2484	2483	2471	2461	2459	1146
35°	2282	2282	2268	2255	2248	1426
45°	1937	1938	1918	1903	1896	1491
55°	1465	1456	1429	1413	1411	1305
65°	911	908	893	872	867	899
75°	372	374	368	358	351	405
85°	56	55	56	55	52	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2627.4	2627.4	2627.4	2627.4	2627.4
2.5°	2628.1	2628.1	2626.6	2624.3	2629.7
5°	2624.3	2625.1	2623.5	2621.3	2625.1
7.5°	2619.0	2619.7	2617.4	2615.1	2618.2
10°	2610.6	2609.8	2607.5	2606.0	2609.8
12.5°	2598.3	2597.6	2595.3	2593.7	2596.8
15°	2583.1	2583.1	2579.2	2576.9	2577.7
17.5°	2564.7	2564.7	2559.4	2554.0	2555.5
20°	2543.3	2542.6	2534.9	2529.6	2528.8
22.5°	2516.6	2516.6	2505.9	2499.0	2496.7
25°	2483.7	2483.0	2470.7	2460.8	2459.3
27.5°	2446.3	2444.8	2430.3	2420.3	2416.5
30°	2399.7	2398.2	2382.9	2372.2	2367.6
32.5°	2344.7	2347.0	2329.4	2317.2	2312.6
35°	2282.0	2282.0	2268.3	2255.3	2247.7
37.5°	2210.2	2210.2	2197.2	2184.2	2175.1
40°	2128.5	2129.2	2115.5	2099.4	2091.8
42.5°	2036.8	2038.3	2020.0	2007.0	1998.6
45°	1936.7	1937.5	1917.6	1903.1	1896.2
47.5°	1828.2	1826.7	1804.5	1792.3	1785.4
50°	1712.1	1709.0	1684.6	1673.1	1667.0
52.5°	1590.6	1584.5	1563.1	1546.3	1541.0
55°	1464.6	1456.2	1429.4	1412.6	1411.1
57.5°	1333.2	1323.2	1301.1	1285.0	1278.9
60°	1189.5	1187.2	1168.9	1149.8	1145.2
62.5°	1055.1	1048.2	1032.2	1009.2	1006.9
65°	911.4	907.6	893.1	871.7	867.1
67.5°	763.2	767.0	754.8	735.7	729.6
70°	629.5	631.8	618.1	600.5	598.2
72.5°	495.1	498.9	487.4	476.0	473.7
75°	372.1	373.6	368.2	358.3	350.7
77.5°	264.3	269.7	263.6	256.7	250.6
80°	184.1	175.7	176.5	173.4	166.5
82.5°	110.8	107.0	106.2	103.1	100.1
85°	55.8	55.0	55.8	55.0	52.0
87.5°	18.3	19.9	20.6	20.6	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)