

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: P412913

Luminaire Tested: **24PD-75-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

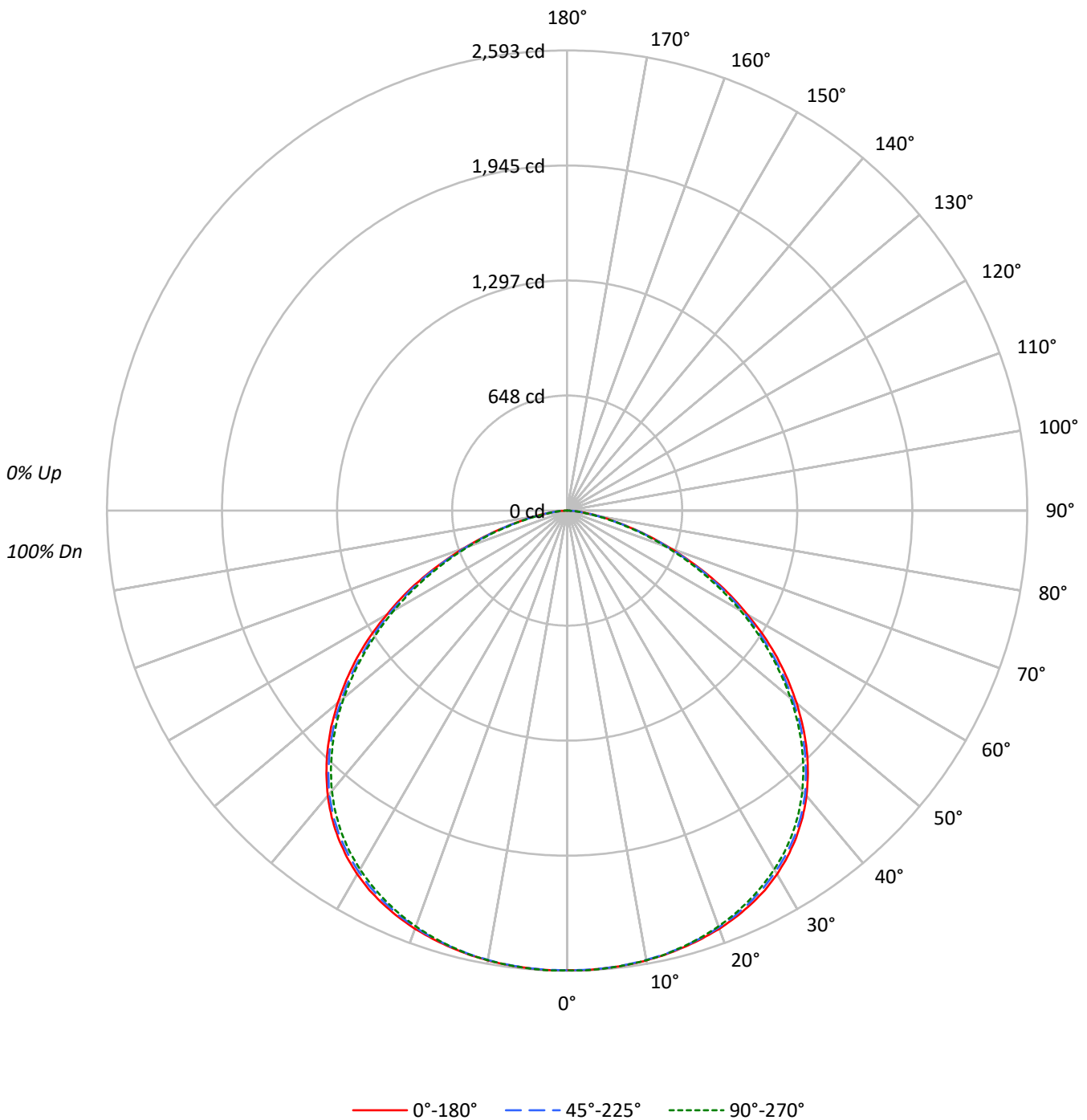
Test Method: LM-79-08  
Report Number: P412913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PP3-L840  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7538.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 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	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°	3486	3486	3486
5°	3495	3494	3496
10°	3517	3513	3516
15°	3548	3542	3540
20°	3591	3579	3570
25°	3636	3617	3600
30°	3676	3650	3627
35°	3696	3674	3640
40°	3686	3664	3623
45°	3634	3598	3558
50°	3534	3477	3441
55°	3388	3306	3264
60°	3156	3101	3039
65°	2861	2804	2722
70°	2442	2397	2320
75°	1907	1888	1798
80°	1406	1348	1272
85°	849	849	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	3.3
10°-20°	719.2	9.5
20°-30°	1124.1	14.9
30°-40°	1397.1	18.5
40°-50°	1455.7	19.3
50°-60°	1263.1	16.8
60°-70°	868.5	11.5
70°-80°	392.0	5.2
80°-90°	71.8	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°	2089.8	27.7
0°-40°	3486.9	46.3
0°-60°	6205.7	82.3
0°-90°	7538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2591	2591	2591	2591	2591	
5°	2588	2588	2587	2585	2588	247
15°	2547	2547	2543	2541	2542	720
25°	2449	2448	2436	2426	2425	1130
35°	2250	2250	2236	2224	2216	1406
45°	1910	1910	1891	1876	1870	1470
55°	1444	1436	1409	1393	1391	1287
65°	899	895	881	860	855	887
75°	367	368	363	353	346	399
85°	55	54	55	54	51	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2590.6	2590.6	2590.6	2590.6	2590.6
2.5°	2591.3	2591.3	2589.8	2587.6	2592.9
5°	2587.6	2588.3	2586.8	2584.6	2588.3
7.5°	2582.3	2583.1	2580.8	2578.5	2581.6
10°	2574.0	2573.3	2571.0	2569.5	2573.3
12.5°	2562.0	2561.2	2559.0	2557.4	2560.5
15°	2546.9	2546.9	2543.1	2540.9	2541.6
17.5°	2528.8	2528.8	2523.5	2518.3	2519.8
20°	2507.7	2507.0	2499.4	2494.2	2493.4
22.5°	2481.4	2481.4	2470.8	2464.0	2461.8
25°	2449.0	2448.2	2436.2	2426.4	2424.9
27.5°	2412.1	2410.6	2396.2	2386.4	2382.7
30°	2366.1	2364.6	2349.5	2339.0	2334.5
32.5°	2311.9	2314.1	2296.8	2284.8	2280.2
35°	2250.1	2250.1	2236.5	2223.7	2216.2
37.5°	2179.3	2179.3	2166.5	2153.7	2144.6
40°	2098.7	2099.4	2085.9	2070.1	2062.5
42.5°	2008.3	2009.8	1991.7	1978.9	1970.6
45°	1909.6	1910.4	1890.8	1876.5	1869.7
47.5°	1802.6	1801.1	1779.3	1767.2	1760.5
50°	1688.1	1685.1	1661.0	1649.7	1643.7
52.5°	1568.4	1562.3	1541.2	1524.7	1519.4
55°	1444.1	1435.8	1409.4	1392.8	1391.3
57.5°	1314.5	1304.7	1282.9	1267.0	1261.0
60°	1172.9	1170.6	1152.5	1133.7	1129.2
62.5°	1040.3	1033.5	1017.7	995.1	992.8
65°	898.7	894.9	880.6	859.5	855.0
67.5°	752.5	756.3	744.3	725.4	719.4
70°	620.7	623.0	609.4	592.1	589.8
72.5°	488.1	491.9	480.6	469.3	467.0
75°	366.9	368.4	363.1	353.3	345.8
77.5°	260.6	265.9	259.9	253.1	247.1
80°	181.5	173.3	174.0	171.0	164.2
82.5°	109.2	105.5	104.7	101.7	98.7
85°	55.0	54.2	55.0	54.2	51.2
87.5°	18.1	19.6	20.3	20.3	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)