

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: P412562

Luminaire Tested: **24PD-70-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

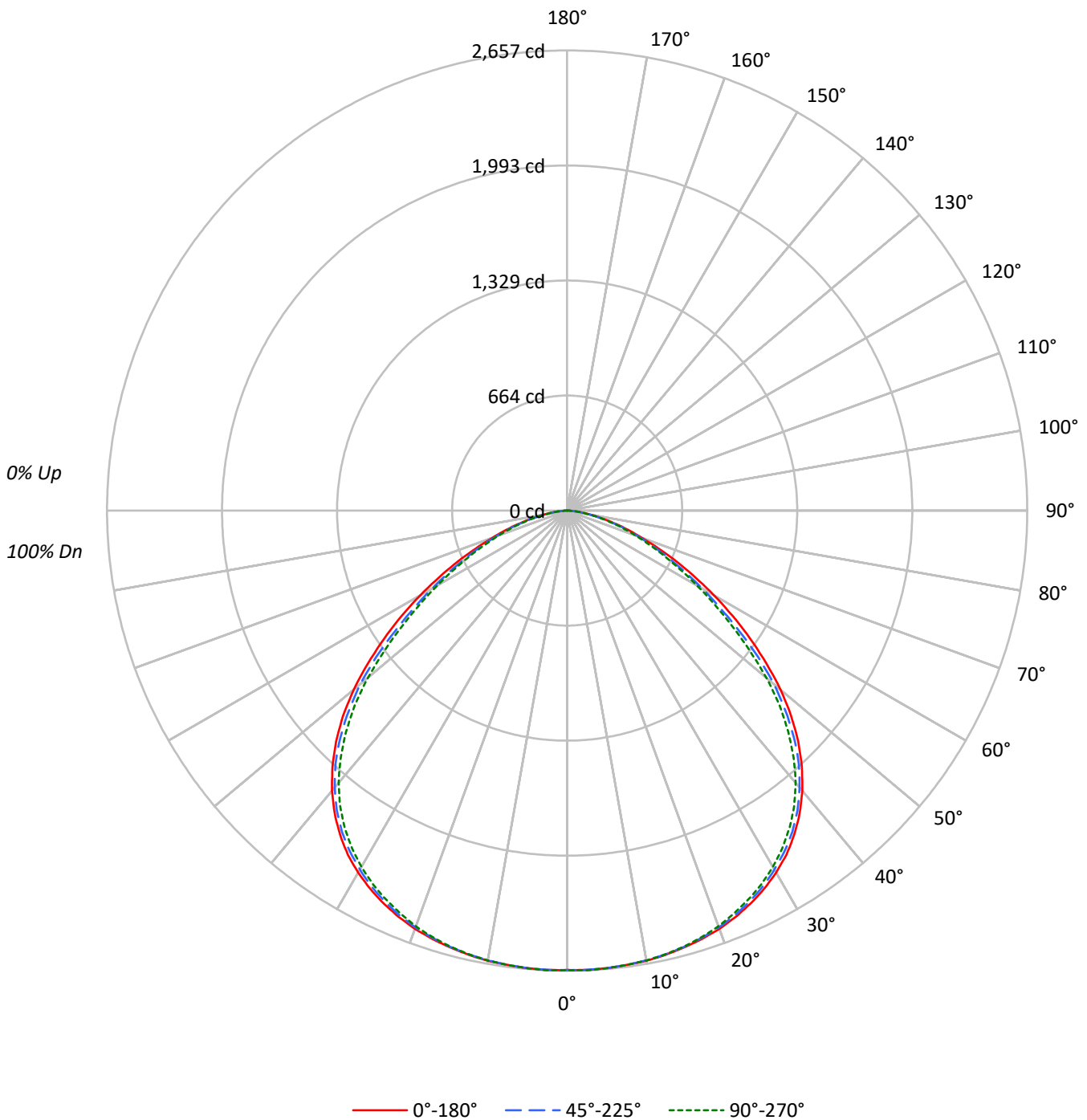
Test Method: LM-79-08  
Report Number: P412562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-70-PB1-L840  
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7060.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 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): 52.3  
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	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°	3570	3570	3570
5°	3582	3582	3582
10°	3606	3602	3603
15°	3638	3633	3630
20°	3679	3667	3657
25°	3718	3699	3678
30°	3750	3719	3691
35°	3754	3722	3675
40°	3710	3667	3605
45°	3590	3525	3434
50°	3367	3262	3143
55°	3025	2845	2728
60°	2634	2424	2331
65°	2216	2051	1961
70°	1806	1715	1646
75°	1448	1396	1338
80°	1112	1024	997
85°	695	673	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.6	3.6
10°-20°	737.3	10.4
20°-30°	1148.7	16.3
30°-40°	1413.1	20.0
40°-50°	1419.4	20.1
50°-60°	1093.9	15.5
60°-70°	649.4	9.2
70°-80°	289.1	4.1
80°-90°	56.5	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°	2138.6	30.3
0°-40°	3551.7	50.3
0°-60°	6065.0	85.9
0°-90°	7060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2653	2653	2653	2653	2653	
5°	2652	2652	2652	2649	2652	253
15°	2612	2612	2608	2604	2606	739
25°	2504	2504	2492	2480	2477	1155
35°	2286	2282	2266	2247	2238	1427
45°	1887	1882	1852	1821	1804	1448
55°	1290	1265	1213	1176	1163	1153
65°	696	666	644	620	616	696
75°	278	273	269	260	257	301
85°	45	43	44	42	44	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2654.6	2653.9	2653.9	2651.1	2656.8
5°	2651.8	2652.5	2651.8	2649.0	2651.8
7.5°	2646.2	2646.9	2645.5	2642.7	2645.5
10°	2639.2	2639.2	2636.4	2635.0	2637.1
12.5°	2627.2	2627.2	2624.4	2622.3	2624.4
15°	2611.7	2611.7	2608.2	2604.0	2606.1
17.5°	2592.8	2592.8	2587.1	2581.5	2582.9
20°	2569.6	2568.9	2561.1	2553.4	2554.1
22.5°	2540.0	2539.3	2529.5	2520.3	2517.5
25°	2504.2	2503.5	2491.5	2480.2	2477.4
27.5°	2462.7	2459.9	2446.5	2433.8	2431.0
30°	2413.4	2411.3	2393.8	2381.1	2375.5
32.5°	2356.5	2350.9	2334.7	2319.2	2311.5
35°	2285.5	2281.9	2265.8	2246.8	2237.6
37.5°	2205.3	2201.8	2184.2	2163.1	2152.5
40°	2112.5	2109.7	2087.9	2066.1	2052.7
42.5°	2005.6	2003.5	1980.3	1950.0	1936.0
45°	1886.7	1881.8	1852.3	1821.3	1804.5
47.5°	1754.5	1746.1	1710.2	1680.7	1662.4
50°	1608.3	1597.0	1558.3	1520.4	1501.4
52.5°	1450.0	1430.3	1390.3	1346.7	1328.4
55°	1289.7	1265.1	1213.0	1176.5	1163.1
57.5°	1132.9	1097.0	1047.8	1021.8	1008.4
60°	978.9	939.5	900.8	875.5	866.4
62.5°	831.9	798.9	765.8	740.5	734.9
65°	696.2	665.9	644.1	619.5	616.0
67.5°	569.6	555.5	535.9	514.8	511.9
70°	459.2	453.6	436.0	423.3	418.4
72.5°	366.4	360.8	348.1	339.0	337.5
75°	278.5	272.8	268.6	259.5	257.4
77.5°	198.3	199.0	195.5	190.6	192.0
80°	143.5	135.0	132.2	129.4	128.7
82.5°	87.9	83.0	80.9	80.2	81.6
85°	45.0	42.9	43.6	41.5	43.6
87.5°	15.5	15.5	16.2	15.5	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)