

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: P413253

Luminaire Tested: **24PD-75-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

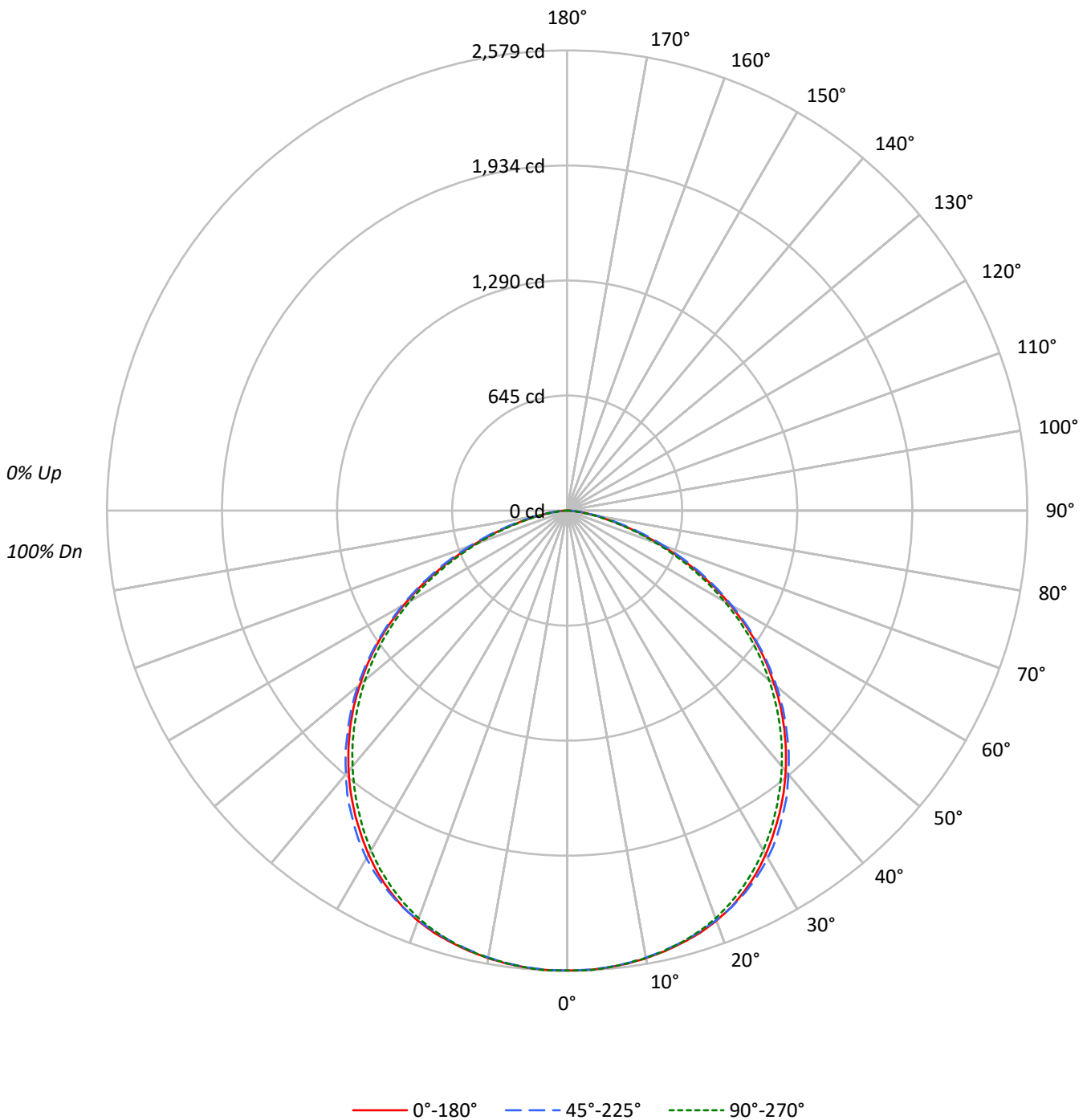
Test Method: LM-79-08  
Report Number: P413253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PC3-L830  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7046.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 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): 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	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°	3468	3468	3468
5°	3473	3471	3474
10°	3480	3475	3478
15°	3491	3484	3485
20°	3503	3498	3482
25°	3493	3506	3457
30°	3458	3495	3415
35°	3407	3451	3356
40°	3347	3388	3287
45°	3272	3307	3204
50°	3170	3206	3093
55°	3040	3067	2950
60°	2838	2871	2740
65°	2557	2621	2457
70°	2172	2267	2084
75°	1682	1804	1604
80°	1251	1306	1134
85°	772	827	716



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.5	3.5
10°-20°	706.9	10.0
20°-30°	1082.6	15.4
30°-40°	1302.4	18.5
40°-50°	1328.1	18.8
50°-60°	1151.4	16.3
60°-70°	798.2	11.3
70°-80°	364.6	5.2
80°-90°	67.3	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°	2034.1	28.9
0°-40°	3336.5	47.4
0°-60°	5815.9	82.5
0°-90°	7046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2571	2571	2570	2568	2572	245
15°	2506	2506	2501	2499	2502	708
25°	2353	2359	2361	2341	2329	1083
35°	2074	2096	2101	2074	2043	1297
45°	1720	1741	1738	1714	1684	1325
55°	1296	1304	1308	1275	1258	1155
65°	803	820	823	796	772	794
75°	324	341	347	336	308	354
85°	50	51	54	51	46	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2577.8	2577.8	2577.8	2577.8	2577.8
2.5°	2577.8	2577.8	2576.4	2574.9	2579.2
5°	2571.4	2571.4	2569.9	2568.5	2572.1
7.5°	2561.4	2560.6	2559.2	2557.8	2559.9
10°	2547.1	2546.4	2543.5	2542.8	2545.7
12.5°	2529.2	2528.5	2524.2	2524.2	2526.4
15°	2506.4	2505.7	2501.4	2499.2	2502.1
17.5°	2480.7	2480.0	2475.0	2469.2	2470.7
20°	2446.4	2446.4	2442.8	2434.3	2432.1
22.5°	2405.0	2407.1	2407.1	2390.7	2384.3
25°	2352.9	2359.3	2361.4	2340.7	2328.6
27.5°	2293.6	2303.6	2309.3	2282.9	2267.2
30°	2225.8	2242.2	2249.3	2220.8	2197.9
32.5°	2151.5	2172.2	2180.8	2152.9	2123.6
35°	2074.4	2096.5	2100.8	2073.7	2042.9
37.5°	1992.3	2015.1	2020.8	1996.5	1958.7
40°	1905.8	1928.7	1928.7	1908.7	1871.6
42.5°	1814.4	1838.7	1838.0	1813.7	1780.2
45°	1719.5	1740.9	1738.0	1714.5	1683.8
47.5°	1621.6	1635.2	1638.8	1610.9	1581.7
50°	1514.5	1528.1	1531.7	1500.3	1477.4
52.5°	1408.9	1417.4	1422.4	1386.0	1369.6
55°	1296.0	1303.9	1307.5	1275.3	1257.5
57.5°	1176.8	1186.8	1191.1	1158.9	1138.9
60°	1054.7	1065.4	1066.8	1036.8	1018.3
62.5°	930.4	944.7	947.6	917.6	895.4
65°	803.3	820.5	823.3	795.5	771.9
67.5°	676.2	699.1	699.8	676.9	649.1
70°	552.0	577.0	576.3	557.0	529.8
72.5°	433.4	456.3	461.3	443.4	417.0
75°	323.5	341.3	347.0	335.6	308.5
77.5°	229.9	246.4	251.4	240.6	220.6
80°	161.4	162.1	168.5	160.0	146.4
82.5°	100.0	98.5	100.7	97.1	89.3
85°	50.0	51.4	53.6	50.7	46.4
87.5°	17.1	17.9	19.3	19.3	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)