

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: P413136

Luminaire Tested: **22PD-75-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

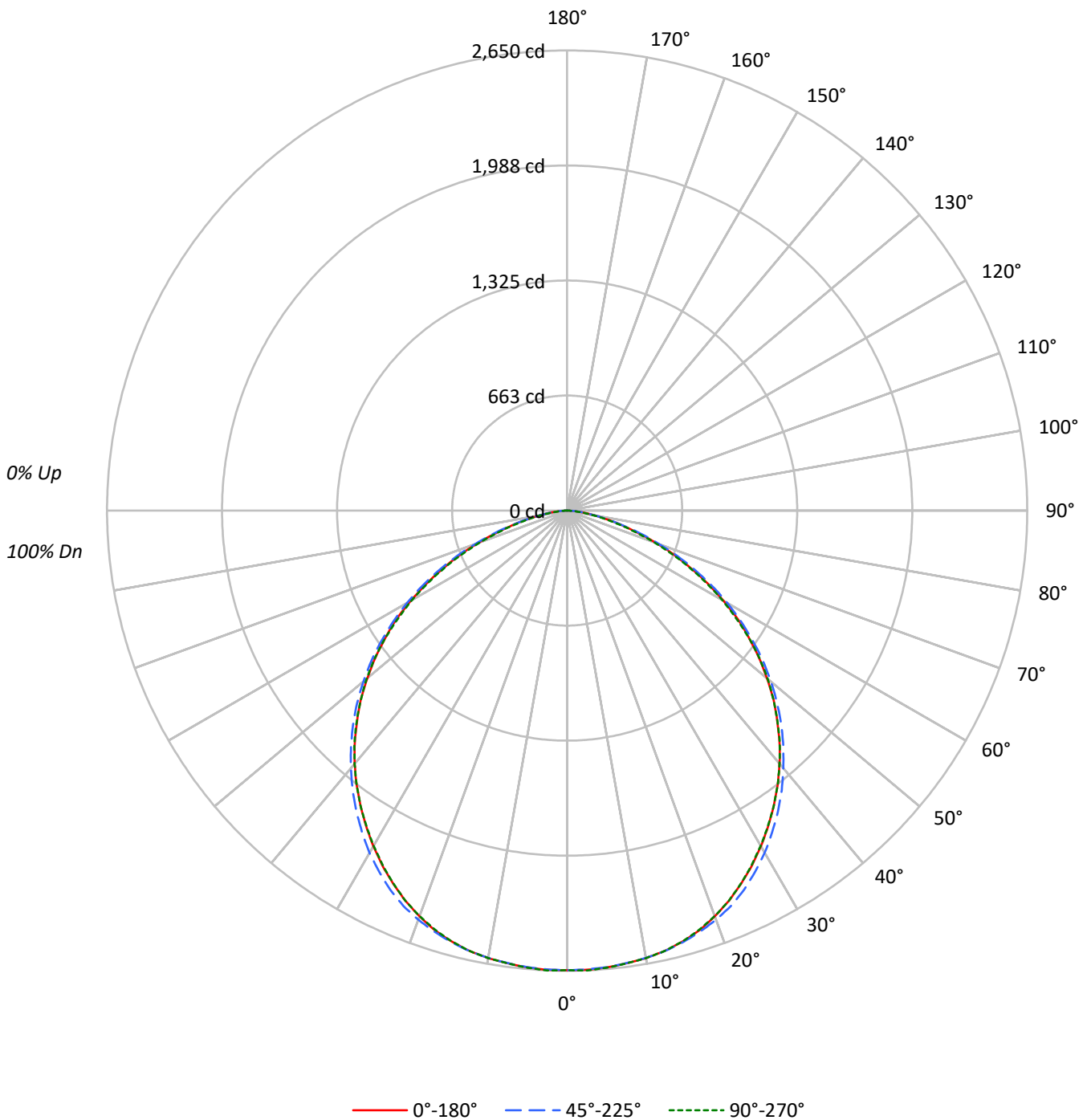
Test Method: LM-79-08  
Report Number: P413136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-75-PC3-L830  
Description: 7500 LUMEN 2X2 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: 7111.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 67.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	7123	7123	7123
5°	7132	7128	7136
10°	7150	7148	7150
15°	7158	7168	7156
20°	7122	7180	7117
25°	7039	7155	7035
30°	6935	7071	6925
35°	6815	6950	6815
40°	6687	6805	6687
45°	6511	6639	6520
50°	6288	6411	6313
55°	5996	6115	5996
60°	5591	5732	5555
65°	5018	5195	4953
70°	4293	4445	4167
75°	3405	3502	3230
80°	2439	2531	2323
85°	1612	1664	1507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.1	3.5
10°-20°	725.4	10.2
20°-30°	1100.6	15.5
30°-40°	1314.4	18.5
40°-50°	1336.7	18.8
50°-60°	1156.2	16.3
60°-70°	795.6	11.2
70°-80°	361.1	5.1
80°-90°	69.9	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°	2077.1	29.2
0°-40°	3391.5	47.7
0°-60°	5884.4	82.8
0°-90°	7111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2640	2638	2639	2639	2642	251
15°	2570	2571	2573	2569	2569	725
25°	2371	2392	2410	2388	2369	1092
35°	2074	2112	2116	2108	2074	1298
45°	1711	1742	1744	1743	1713	1319
55°	1278	1300	1303	1301	1278	1142
65°	788	810	816	809	778	782
75°	328	340	337	333	311	352
85°	52	56	54	52	49	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2647.0	2647.0	2647.0	2647.0	2647.0
2.5°	2647.0	2643.6	2644.5	2645.3	2650.4
5°	2640.3	2637.7	2638.6	2638.6	2641.9
7.5°	2629.3	2628.5	2628.5	2627.6	2630.1
10°	2616.7	2615.0	2615.8	2615.0	2616.7
12.5°	2597.3	2597.3	2598.2	2595.6	2597.3
15°	2569.5	2571.2	2572.9	2568.7	2568.7
17.5°	2534.2	2538.4	2542.6	2535.0	2530.8
20°	2487.0	2497.1	2507.2	2495.4	2485.3
22.5°	2432.3	2449.1	2464.3	2445.8	2432.3
25°	2370.8	2391.9	2409.6	2387.7	2369.2
27.5°	2304.3	2327.9	2344.7	2326.2	2301.0
30°	2231.9	2260.5	2275.7	2258.0	2228.6
32.5°	2154.5	2188.1	2197.4	2186.5	2152.8
35°	2074.5	2111.5	2115.7	2108.2	2074.5
37.5°	1991.1	2026.5	2029.9	2025.7	1991.1
40°	1903.6	1936.4	1937.3	1937.3	1903.6
42.5°	1810.1	1842.1	1842.1	1841.3	1812.6
45°	1710.8	1741.9	1744.5	1742.8	1713.3
47.5°	1612.3	1635.8	1640.1	1636.7	1610.6
50°	1502.0	1526.4	1531.4	1528.1	1507.9
52.5°	1392.5	1415.3	1420.3	1417.8	1395.1
55°	1278.0	1299.9	1303.3	1300.8	1278.0
57.5°	1167.7	1182.1	1185.4	1180.4	1151.7
60°	1038.9	1059.1	1065.0	1059.1	1032.2
62.5°	914.3	936.2	941.3	932.8	904.2
65°	788.0	809.9	815.8	809.1	777.9
67.5°	668.5	684.5	689.5	682.0	653.3
70°	545.6	565.8	564.9	554.8	529.6
72.5°	424.3	452.1	447.1	441.2	413.4
75°	327.5	340.1	336.8	333.4	310.7
77.5°	234.1	249.2	240.8	241.6	222.3
80°	157.4	171.8	163.3	160.0	149.9
82.5°	100.2	106.1	104.4	102.7	93.5
85°	52.2	55.6	53.9	52.2	48.8
87.5°	20.2	21.9	20.2	20.2	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)