

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: P413289

Luminaire Tested: **24PD-95-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

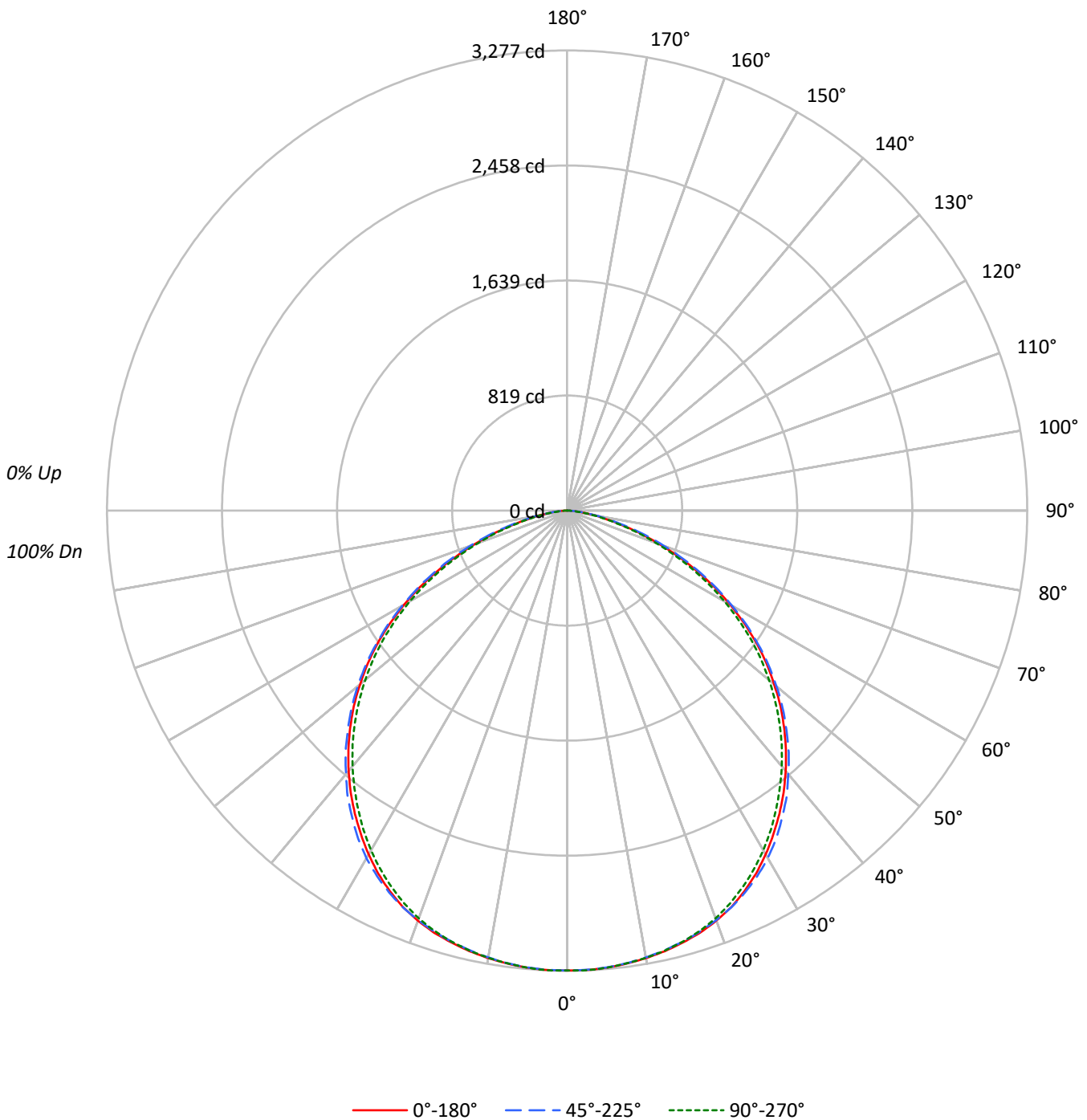
Test Method: LM-79-08  
Report Number: P413289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-95-PC3-L830  
Description: 9500 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: 8952.0 lumens  
Efficiency: N/A  
Efficacy: 122.6 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): 73  
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°	4407	4407	4407
5°	4412	4410	4414
10°	4421	4415	4419
15°	4436	4427	4428
20°	4450	4444	4424
25°	4438	4454	4392
30°	4393	4440	4339
35°	4329	4384	4263
40°	4253	4304	4176
45°	4157	4202	4070
50°	4028	4073	3929
55°	3863	3897	3748
60°	3606	3647	3481
65°	3249	3330	3122
70°	2759	2880	2648
75°	2137	2292	2037
80°	1588	1659	1441
85°	980	1050	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	3.5
10°-20°	898.2	10.0
20°-30°	1375.5	15.4
30°-40°	1654.7	18.5
40°-50°	1687.3	18.8
50°-60°	1462.8	16.3
60°-70°	1014.2	11.3
70°-80°	463.2	5.2
80°-90°	85.5	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°	2584.3	28.9
0°-40°	4239.0	47.4
0°-60°	7389.1	82.5
0°-90°	8952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3275	3275	3275	3275	3275	
5°	3267	3267	3265	3263	3268	311
15°	3184	3184	3178	3175	3179	900
25°	2989	2998	3000	2974	2958	1376
35°	2636	2664	2669	2635	2596	1648
45°	2185	2212	2208	2178	2139	1684
55°	1647	1657	1661	1620	1598	1467
65°	1021	1042	1046	1011	981	1009
75°	411	434	441	426	392	449
85°	64	65	68	64	59	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3275.1	3275.1	3275.1	3275.1	3275.1
2.5°	3275.1	3275.1	3273.3	3271.5	3276.9
5°	3266.9	3266.9	3265.1	3263.3	3267.8
7.5°	3254.2	3253.3	3251.5	3249.7	3252.4
10°	3236.1	3235.2	3231.6	3230.6	3234.3
12.5°	3213.4	3212.5	3207.1	3207.1	3209.8
15°	3184.4	3183.5	3178.0	3175.3	3178.9
17.5°	3151.7	3150.8	3144.5	3137.2	3139.0
20°	3108.2	3108.2	3103.6	3092.7	3090.0
22.5°	3055.5	3058.3	3058.3	3037.4	3029.2
25°	2989.3	2997.5	3000.2	2973.9	2958.5
27.5°	2914.0	2926.7	2934.0	2900.4	2880.5
30°	2827.8	2848.7	2857.8	2821.5	2792.5
32.5°	2733.5	2759.8	2770.7	2735.3	2698.1
35°	2635.5	2663.6	2669.1	2634.6	2595.6
37.5°	2531.2	2560.2	2567.5	2536.6	2488.5
40°	2421.4	2450.4	2450.4	2425.0	2377.8
42.5°	2305.3	2336.1	2335.2	2304.4	2261.7
45°	2184.6	2211.8	2208.2	2178.3	2139.2
47.5°	2060.3	2077.6	2082.1	2046.7	2009.5
50°	1924.2	1941.5	1946.0	1906.1	1877.1
52.5°	1790.0	1800.9	1807.2	1760.9	1740.1
55°	1646.6	1656.6	1661.1	1620.3	1597.6
57.5°	1495.1	1507.8	1513.3	1472.4	1447.0
60°	1340.0	1353.6	1355.4	1317.3	1293.7
62.5°	1182.1	1200.3	1203.9	1165.8	1137.7
65°	1020.6	1042.4	1046.0	1010.7	980.7
67.5°	859.1	888.2	889.1	860.1	824.7
70°	701.3	733.0	732.1	707.6	673.2
72.5°	550.7	579.7	586.1	563.4	529.8
75°	411.0	433.7	440.9	426.4	391.9
77.5°	292.1	313.0	319.3	305.7	280.3
80°	205.0	205.9	214.1	203.2	186.0
82.5°	127.0	125.2	127.9	123.4	113.4
85°	63.5	65.3	68.0	64.4	59.0
87.5°	21.8	22.7	24.5	24.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)