

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: P413145

Luminaire Tested: **22PD-80-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

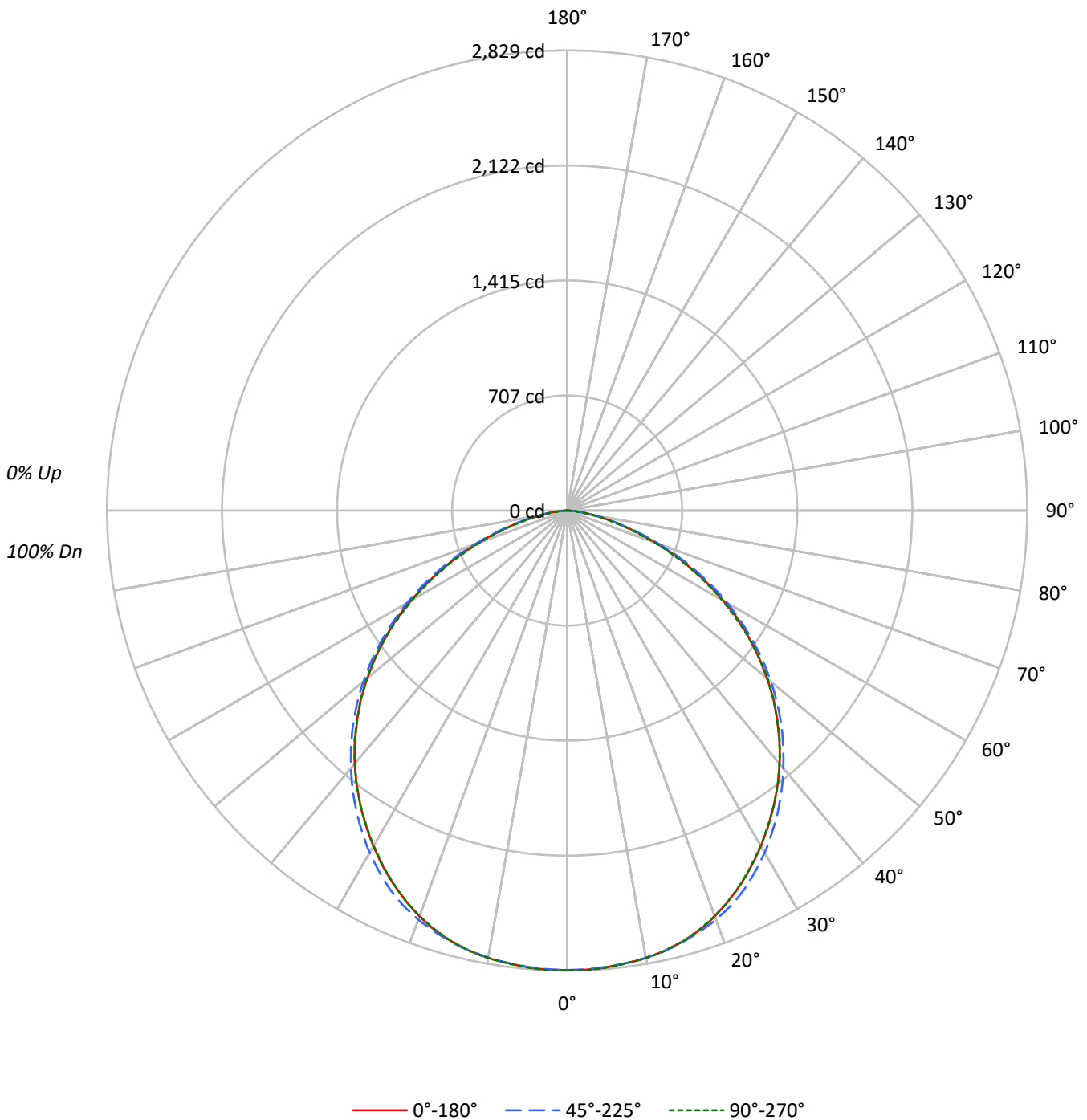
Test Method: LM-79-08  
Report Number: P413145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PC3-L830  
Description: 8000 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: 7590.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 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): 72.6  
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	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°	7603	7603	7603
5°	7612	7608	7617
10°	7632	7629	7632
15°	7641	7651	7638
20°	7602	7663	7597
25°	7513	7636	7508
30°	7402	7548	7391
35°	7274	7419	7274
40°	7137	7263	7137
45°	6949	7086	6959
50°	6712	6843	6738
55°	6400	6526	6400
60°	5968	6118	5929
65°	5356	5545	5287
70°	4581	4744	4447
75°	3635	3738	3448
80°	2603	2701	2479
85°	1720	1775	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	3.5
10°-20°	774.3	10.2
20°-30°	1174.7	15.5
30°-40°	1402.9	18.5
40°-50°	1426.7	18.8
50°-60°	1234.1	16.3
60°-70°	849.2	11.2
70°-80°	385.4	5.1
80°-90°	74.6	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°	2217.1	29.2
0°-40°	3620.0	47.7
0°-60°	6280.8	82.8
0°-90°	7590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7590.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2825	2825	2825	2825	2825	
5°	2818	2815	2816	2816	2820	268
15°	2743	2744	2746	2742	2742	774
25°	2530	2553	2572	2548	2529	1166
35°	2214	2254	2258	2250	2214	1385
45°	1826	1859	1862	1860	1829	1408
55°	1364	1388	1391	1388	1364	1219
65°	841	864	871	864	830	834
75°	350	363	360	356	332	376
85°	56	59	58	56	52	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2825.3	2825.3	2825.3	2825.3	2825.3
2.5°	2825.3	2821.7	2822.6	2823.5	2828.9
5°	2818.1	2815.4	2816.3	2816.3	2819.9
7.5°	2806.4	2805.5	2805.5	2804.6	2807.3
10°	2792.9	2791.1	2792.0	2791.1	2792.9
12.5°	2772.3	2772.3	2773.2	2770.5	2772.3
15°	2742.6	2744.4	2746.2	2741.7	2741.7
17.5°	2704.9	2709.4	2713.9	2705.8	2701.3
20°	2654.6	2665.3	2676.1	2663.5	2652.8
22.5°	2596.1	2614.1	2630.3	2610.5	2596.1
25°	2530.5	2553.0	2571.9	2548.5	2528.7
27.5°	2459.5	2484.7	2502.7	2482.9	2456.0
30°	2382.3	2412.8	2429.0	2410.1	2378.7
32.5°	2299.6	2335.5	2345.4	2333.7	2297.8
35°	2214.2	2253.8	2258.3	2250.2	2214.2
37.5°	2125.3	2163.0	2166.6	2162.1	2125.3
40°	2031.8	2066.8	2067.7	2067.7	2031.8
42.5°	1932.1	1966.2	1966.2	1965.3	1934.7
45°	1826.0	1859.3	1862.0	1860.2	1828.7
47.5°	1720.9	1746.0	1750.5	1746.9	1719.1
50°	1603.2	1629.2	1634.6	1631.0	1609.4
52.5°	1486.3	1510.6	1516.0	1513.3	1489.0
55°	1364.1	1387.5	1391.1	1388.4	1364.1
57.5°	1246.4	1261.7	1265.3	1259.9	1229.3
60°	1108.9	1130.5	1136.8	1130.5	1101.7
62.5°	975.9	999.3	1004.7	995.7	965.1
65°	841.1	864.5	870.8	863.6	830.3
67.5°	713.5	730.6	736.0	727.9	697.3
70°	582.3	603.9	603.0	592.2	565.2
72.5°	452.9	482.6	477.2	470.9	441.2
75°	349.6	363.0	359.5	355.9	331.6
77.5°	249.8	266.0	257.0	257.9	237.2
80°	168.0	183.3	174.3	170.7	160.0
82.5°	106.9	113.2	111.4	109.6	99.7
85°	55.7	59.3	57.5	55.7	52.1
87.5°	21.6	23.4	21.6	21.6	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)