

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: P413037

Luminaire Tested: **22PD-20-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

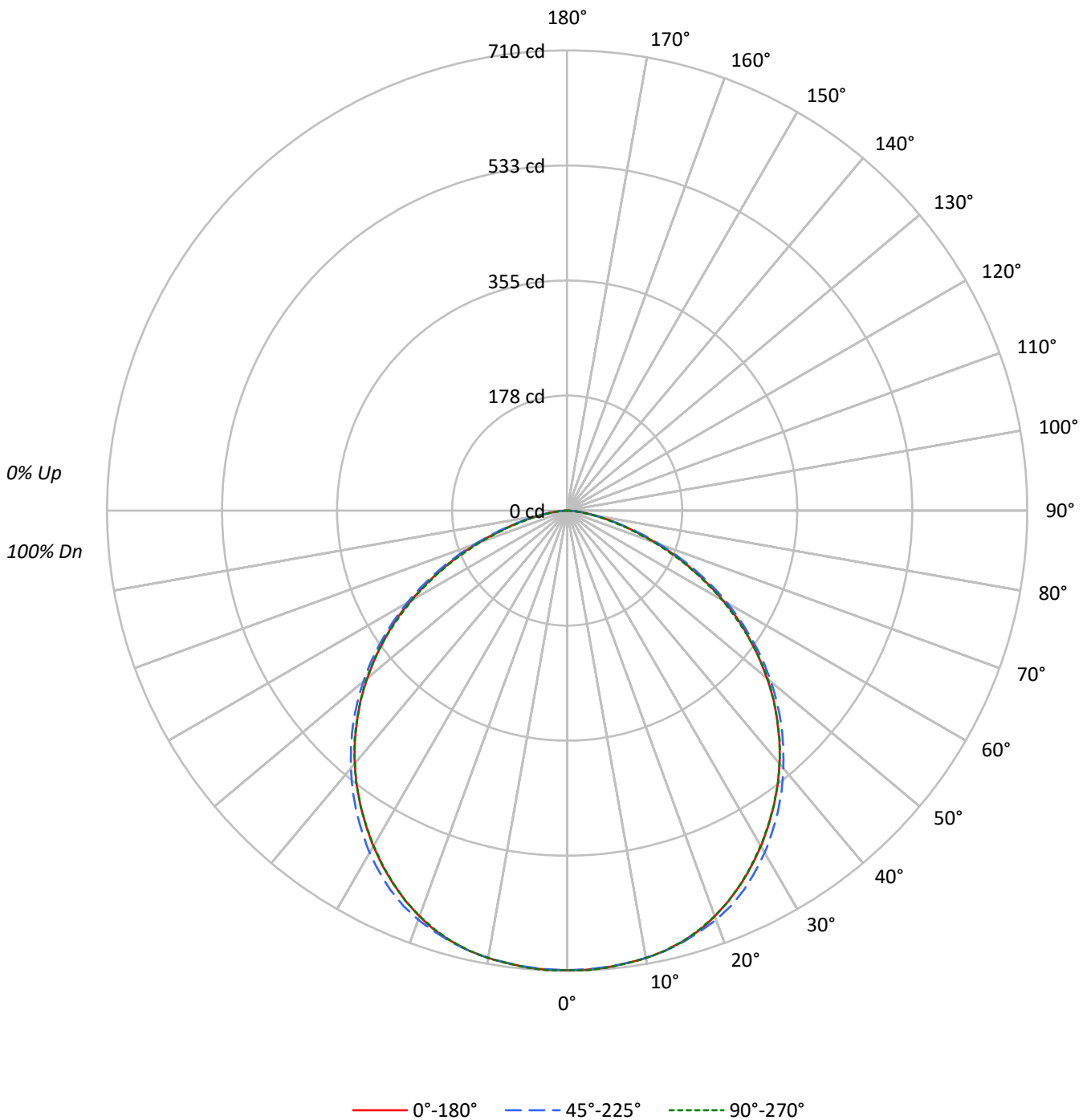
Test Method: LM-79-08  
Report Number: P413037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PC3-L830  
Description: 2000 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: 1905.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 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): 16.9  
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°	1908	1908	1908
5°	1911	1910	1912
10°	1915	1915	1915
15°	1918	1920	1917
20°	1908	1924	1907
25°	1886	1917	1885
30°	1858	1894	1855
35°	1826	1862	1826
40°	1792	1823	1792
45°	1744	1778	1747
50°	1685	1718	1691
55°	1606	1638	1606
60°	1498	1535	1488
65°	1344	1392	1327
70°	1150	1190	1116
75°	912	938	865
80°	654	679	621
85°	432	445	404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	3.5
10°-20°	194.3	10.2
20°-30°	294.8	15.5
30°-40°	352.1	18.5
40°-50°	358.1	18.8
50°-60°	309.7	16.3
60°-70°	213.1	11.2
70°-80°	96.7	5.1
80°-90°	18.7	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°	556.5	29.2
0°-40°	908.6	47.7
0°-60°	1576.4	82.8
0°-90°	1905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	707	707	707	707	708	67
15°	688	689	689	688	688	194
25°	635	641	646	640	635	293
35°	556	566	567	565	556	348
45°	458	467	467	467	459	353
55°	342	348	349	348	342	306
65°	211	217	219	217	208	209
75°	88	91	90	89	83	94
85°	14	15	14	14	13	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	709.1	709.1	709.1	709.1	709.1
2.5°	709.1	708.2	708.4	708.7	710.0
5°	707.3	706.6	706.9	706.9	707.8
7.5°	704.4	704.2	704.2	703.9	704.6
10°	701.0	700.5	700.8	700.5	701.0
12.5°	695.8	695.8	696.0	695.4	695.8
15°	688.4	688.8	689.3	688.1	688.1
17.5°	678.9	680.0	681.1	679.1	678.0
20°	666.3	669.0	671.7	668.5	665.8
22.5°	651.6	656.1	660.2	655.2	651.6
25°	635.1	640.8	645.5	639.6	634.7
27.5°	617.3	623.6	628.1	623.2	616.4
30°	597.9	605.6	609.6	604.9	597.0
32.5°	577.2	586.2	588.7	585.7	576.7
35°	555.7	565.7	566.8	564.8	555.7
37.5°	533.4	542.9	543.8	542.7	533.4
40°	510.0	518.8	519.0	519.0	510.0
42.5°	484.9	493.5	493.5	493.3	485.6
45°	458.3	466.7	467.3	466.9	459.0
47.5°	431.9	438.2	439.4	438.5	431.5
50°	402.4	408.9	410.3	409.4	404.0
52.5°	373.1	379.1	380.5	379.8	373.7
55°	342.4	348.2	349.1	348.5	342.4
57.5°	312.8	316.7	317.6	316.2	308.5
60°	278.3	283.7	285.3	283.7	276.5
62.5°	244.9	250.8	252.2	249.9	242.2
65°	211.1	217.0	218.6	216.7	208.4
67.5°	179.1	183.4	184.7	182.7	175.0
70°	146.2	151.6	151.3	148.6	141.9
72.5°	113.7	121.1	119.8	118.2	110.7
75°	87.7	91.1	90.2	89.3	83.2
77.5°	62.7	66.8	64.5	64.7	59.5
80°	42.2	46.0	43.8	42.9	40.1
82.5°	26.8	28.4	28.0	27.5	25.0
85°	14.0	14.9	14.4	14.0	13.1
87.5°	5.4	5.9	5.4	5.4	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)