

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: P413100

Luminaire Tested: **22PD-55-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

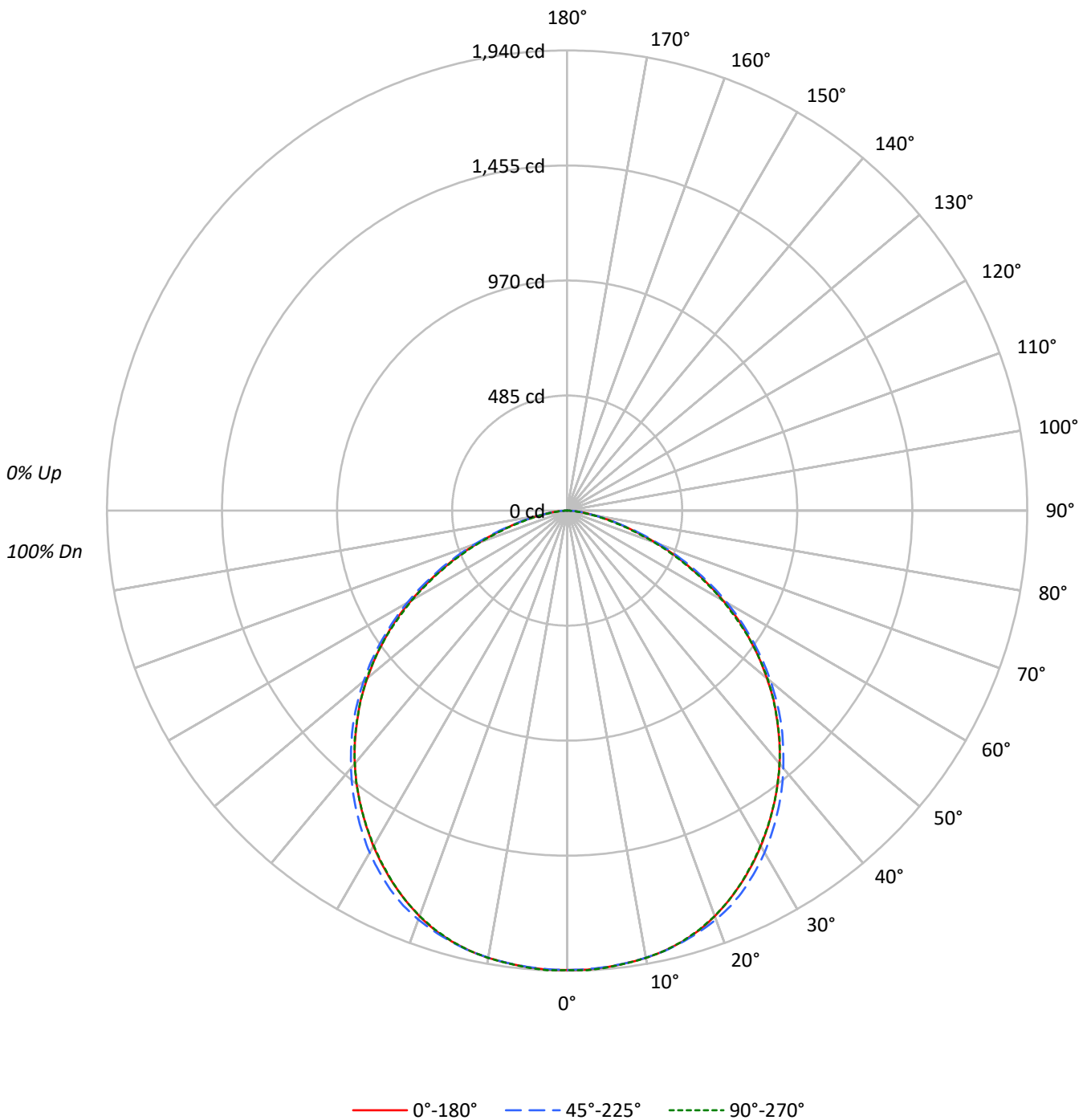
Test Method: LM-79-08  
Report Number: P413100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PC3-L830  
Description: 5500 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: 5204.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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): 46.2  
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°	5213	5213	5213
5°	5219	5216	5223
10°	5232	5231	5232
15°	5239	5246	5237
20°	5212	5255	5208
25°	5152	5236	5148
30°	5075	5175	5068
35°	4987	5086	4987
40°	4894	4980	4894
45°	4765	4858	4771
50°	4602	4692	4620
55°	4388	4475	4388
60°	4092	4195	4066
65°	3672	3801	3625
70°	3142	3253	3049
75°	2492	2563	2364
80°	1785	1852	1700
85°	1179	1216	1102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	3.5
10°-20°	530.9	10.2
20°-30°	805.4	15.5
30°-40°	961.9	18.5
40°-50°	978.2	18.8
50°-60°	846.1	16.3
60°-70°	582.2	11.2
70°-80°	264.3	5.1
80°-90°	51.2	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°	1520.1	29.2
0°-40°	2482.0	47.7
0°-60°	4306.4	82.8
0°-90°	5204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5204.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1932	1930	1931	1931	1933	184
15°	1880	1882	1883	1880	1880	530
25°	1735	1750	1763	1747	1734	799
35°	1518	1545	1548	1543	1518	950
45°	1252	1275	1277	1275	1254	966
55°	935	951	954	952	935	836
65°	577	593	597	592	569	572
75°	240	249	246	244	227	258
85°	38	41	39	38	36	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1937.1	1937.1	1937.1	1937.1	1937.1
2.5°	1937.1	1934.7	1935.3	1935.9	1939.6
5°	1932.2	1930.4	1931.0	1931.0	1933.4
7.5°	1924.2	1923.6	1923.6	1923.0	1924.8
10°	1914.9	1913.7	1914.3	1913.7	1914.9
12.5°	1900.8	1900.8	1901.4	1899.5	1900.8
15°	1880.4	1881.7	1882.9	1879.8	1879.8
17.5°	1854.6	1857.6	1860.7	1855.2	1852.1
20°	1820.1	1827.5	1834.9	1826.2	1818.8
22.5°	1780.0	1792.3	1803.4	1789.9	1780.0
25°	1735.0	1750.4	1763.4	1747.4	1733.8
27.5°	1686.4	1703.6	1715.9	1702.4	1683.9
30°	1633.4	1654.3	1665.4	1652.5	1630.9
32.5°	1576.7	1601.3	1608.1	1600.1	1575.5
35°	1518.2	1545.3	1548.3	1542.8	1518.2
37.5°	1457.2	1483.0	1485.5	1482.4	1457.2
40°	1393.1	1417.1	1417.7	1417.7	1393.1
42.5°	1324.7	1348.1	1348.1	1347.5	1326.5
45°	1252.0	1274.8	1276.6	1275.4	1253.8
47.5°	1179.9	1197.2	1200.2	1197.8	1178.7
50°	1099.2	1117.1	1120.7	1118.3	1103.5
52.5°	1019.1	1035.7	1039.4	1037.6	1020.9
55°	935.3	951.3	953.8	951.9	935.3
57.5°	854.6	865.1	867.5	863.8	842.9
60°	760.3	775.1	779.4	775.1	755.4
62.5°	669.1	685.1	688.8	682.7	661.7
65°	576.7	592.7	597.0	592.1	569.3
67.5°	489.2	500.9	504.6	499.1	478.1
70°	399.3	414.0	413.4	406.0	387.5
72.5°	310.5	330.9	327.2	322.9	302.5
75°	239.7	248.9	246.5	244.0	227.4
77.5°	171.3	182.4	176.2	176.8	162.7
80°	115.2	125.7	119.5	117.1	109.7
82.5°	73.3	77.6	76.4	75.2	68.4
85°	38.2	40.7	39.4	38.2	35.7
87.5°	14.8	16.0	14.8	14.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)