

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: P412758

Luminaire Tested: **22PD-55-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

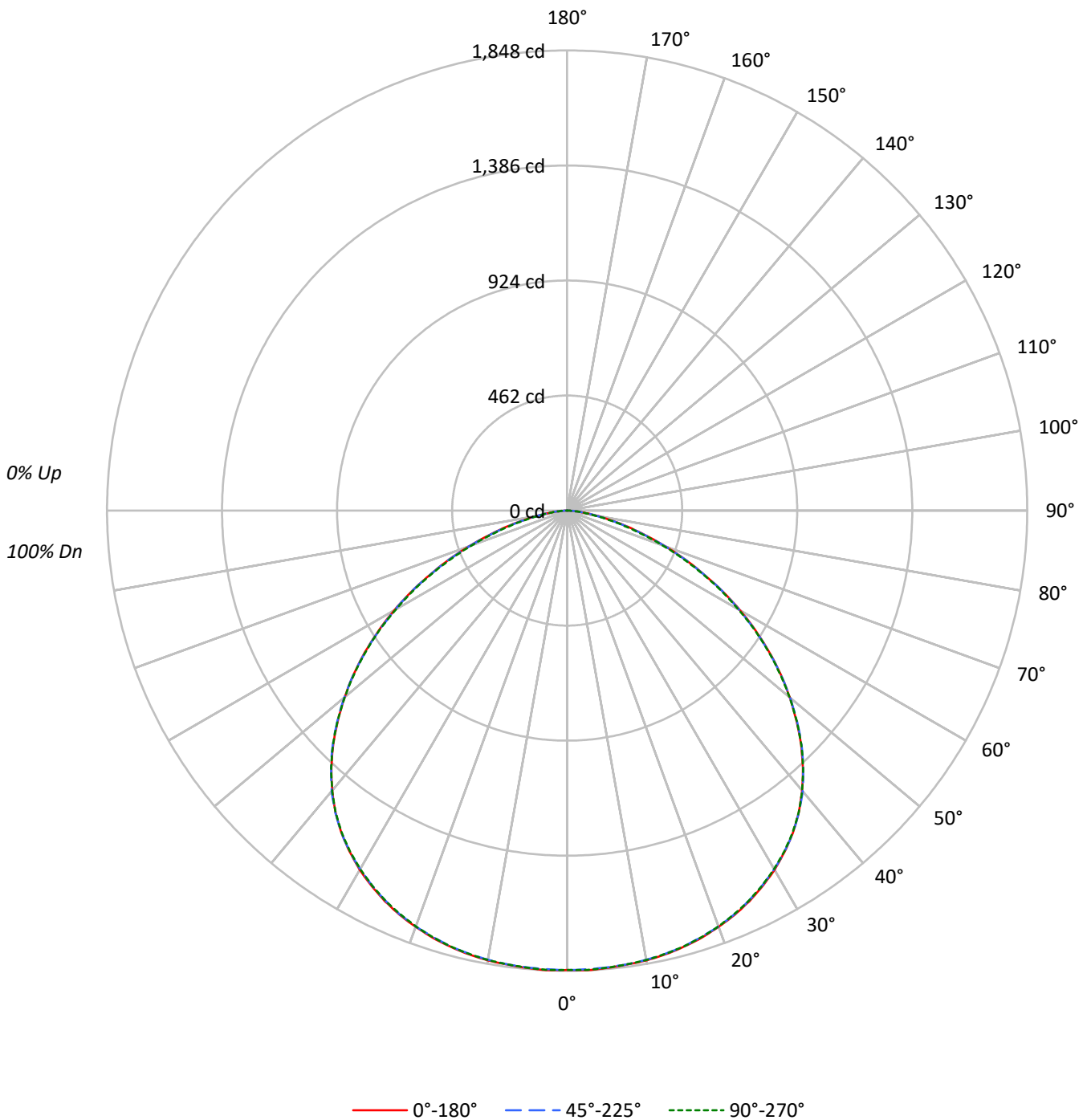
Test Method: LM-79-08  
Report Number: P412758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PP3-L830  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5294.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	4965	4965	4965
5°	4981	4974	4978
10°	5012	5005	5008
15°	5051	5046	5046
20°	5095	5090	5088
25°	5140	5131	5131
30°	5176	5167	5165
35°	5191	5191	5185
40°	5157	5168	5157
45°	5055	5069	5062
50°	4885	4893	4880
55°	4651	4639	4631
60°	4317	4307	4274
65°	3856	3852	3809
70°	3296	3277	3204
75°	2626	2549	2472
80°	1872	1833	1737
85°	1216	1216	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	3.3
10°-20°	511.9	9.7
20°-30°	797.0	15.1
30°-40°	986.4	18.6
40°-50°	1022.9	19.3
50°-60°	881.6	16.7
60°-70°	599.4	11.3
70°-80°	268.2	5.1
80°-90°	51.1	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°	1484.3	28.0
0°-40°	2470.8	46.7
0°-60°	4375.3	82.6
0°-90°	5294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5294.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1844	1840	1842	1841	1843	176
15°	1813	1810	1811	1810	1811	513
25°	1731	1729	1728	1728	1728	798
35°	1580	1578	1580	1578	1578	987
45°	1328	1327	1332	1329	1330	1022
55°	991	988	989	987	987	884
65°	606	610	605	603	598	601
75°	253	253	245	244	238	272
85°	39	41	39	38	38	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1847.7	1844.0	1844.0	1844.6	1846.4
5°	1844.0	1840.3	1841.5	1840.9	1842.7
7.5°	1839.0	1836.0	1837.8	1836.6	1837.8
10°	1834.1	1831.0	1831.6	1831.0	1832.9
12.5°	1825.5	1821.8	1823.0	1823.0	1823.6
15°	1813.2	1810.1	1811.3	1810.1	1811.3
17.5°	1798.4	1794.7	1795.3	1794.7	1795.9
20°	1779.3	1776.8	1777.4	1776.2	1776.8
22.5°	1757.7	1754.6	1755.2	1754.0	1754.0
25°	1731.2	1728.8	1728.1	1727.5	1728.1
27.5°	1700.4	1697.3	1697.3	1696.7	1696.7
30°	1665.9	1662.8	1662.8	1662.2	1662.2
32.5°	1625.3	1624.0	1624.6	1623.4	1622.8
35°	1580.3	1578.4	1580.3	1577.8	1578.4
37.5°	1527.9	1525.4	1529.1	1526.7	1527.3
40°	1468.1	1466.9	1471.2	1469.4	1468.1
42.5°	1401.6	1401.6	1403.5	1404.1	1402.8
45°	1328.3	1327.1	1332.0	1328.9	1330.1
47.5°	1249.4	1247.6	1251.3	1250.7	1250.1
50°	1166.9	1165.6	1168.7	1165.6	1165.6
52.5°	1081.2	1080.6	1081.2	1078.2	1077.5
55°	991.3	987.6	988.8	987.0	987.0
57.5°	897.6	893.3	893.9	893.3	893.9
60°	802.2	800.9	800.3	797.2	794.1
62.5°	704.2	705.4	704.8	700.5	697.4
65°	605.6	610.5	605.0	603.2	598.2
67.5°	512.6	514.4	510.7	506.4	500.9
70°	418.9	422.6	416.5	412.2	407.2
72.5°	329.6	332.1	326.5	324.1	317.9
75°	252.6	253.2	245.2	244.0	237.8
77.5°	179.9	182.4	176.2	176.2	170.0
80°	120.8	125.1	118.3	116.4	112.1
82.5°	75.8	76.4	74.5	72.7	70.9
85°	39.4	40.7	39.4	38.2	38.2
87.5°	14.8	15.4	14.8	14.2	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)