

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: P413103

Luminaire Tested: **22PD-55-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

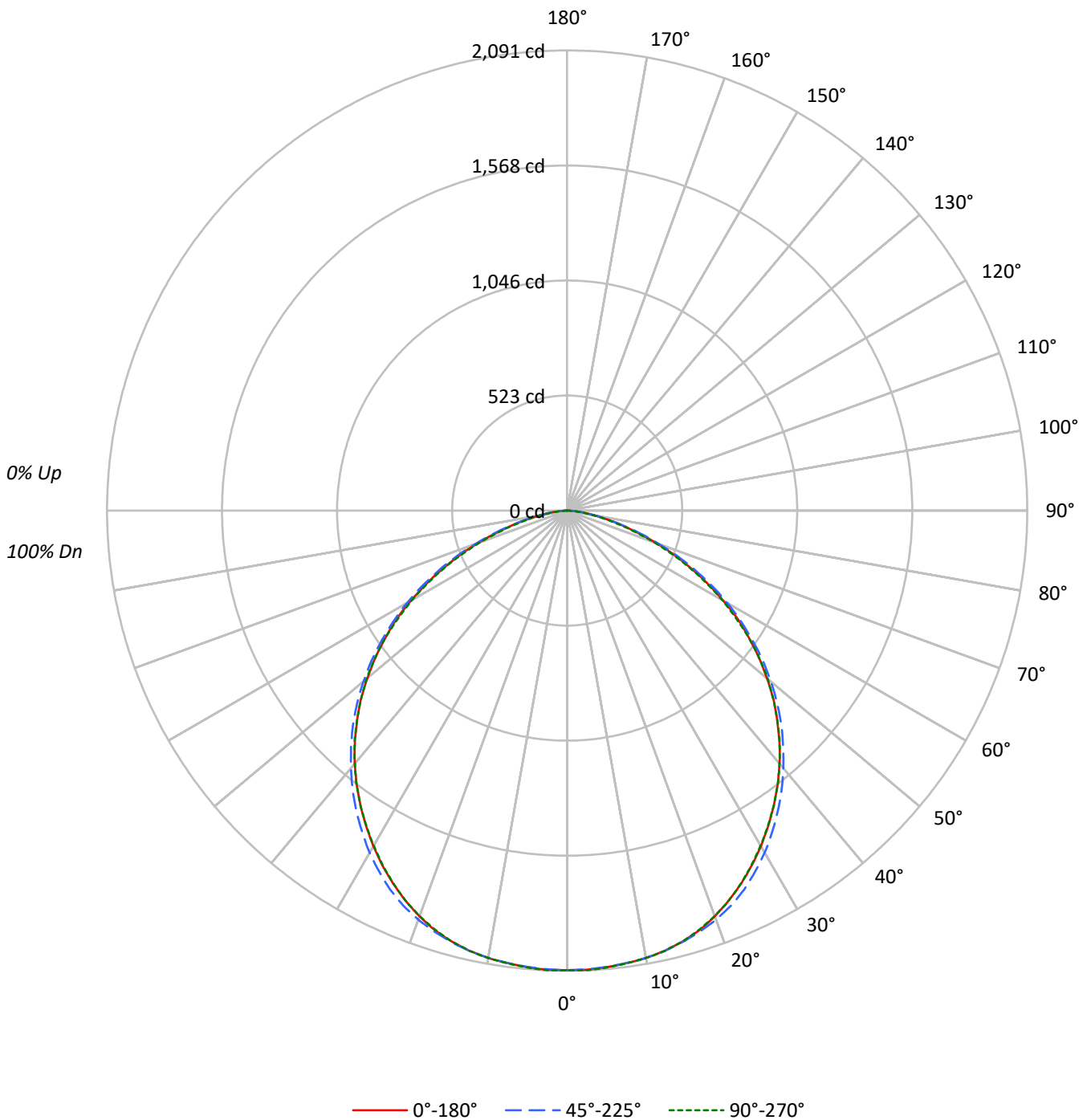
Test Method: LM-79-08  
Report Number: P413103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PC3-L850  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5610.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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°	5620	5620	5620
5°	5626	5623	5630
10°	5641	5639	5641
15°	5648	5655	5646
20°	5619	5664	5615
25°	5554	5644	5550
30°	5471	5578	5463
35°	5376	5483	5376
40°	5276	5369	5276
45°	5136	5237	5144
50°	4960	5058	4980
55°	4731	4824	4731
60°	4411	4522	4383
65°	3959	4098	3908
70°	3386	3507	3287
75°	2687	2763	2548
80°	1925	1998	1832
85°	1272	1312	1189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	3.5
10°-20°	572.3	10.2
20°-30°	868.3	15.5
30°-40°	1036.9	18.5
40°-50°	1054.5	18.8
50°-60°	912.2	16.3
60°-70°	627.7	11.2
70°-80°	284.9	5.1
80°-90°	55.1	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°	1638.7	29.2
0°-40°	2675.6	47.7
0°-60°	4642.3	82.8
0°-90°	5610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2083	2081	2082	2082	2084	198
15°	2027	2028	2030	2026	2026	572
25°	1870	1887	1901	1884	1869	862
35°	1637	1666	1669	1663	1637	1024
45°	1350	1374	1376	1375	1352	1041
55°	1008	1026	1028	1026	1008	901
65°	622	639	644	638	614	617
75°	258	268	266	263	245	278
85°	41	44	42	41	38	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2088.3	2088.3	2088.3	2088.3	2088.3
2.5°	2088.3	2085.6	2086.3	2086.9	2090.9
5°	2082.9	2081.0	2081.6	2081.6	2084.3
7.5°	2074.3	2073.6	2073.6	2073.0	2075.0
10°	2064.3	2063.0	2063.7	2063.0	2064.3
12.5°	2049.1	2049.1	2049.7	2047.7	2049.1
15°	2027.2	2028.5	2029.8	2026.5	2026.5
17.5°	1999.3	2002.6	2005.9	1999.9	1996.6
20°	1962.1	1970.0	1978.0	1968.7	1960.7
22.5°	1918.9	1932.2	1944.1	1929.5	1918.9
25°	1870.4	1887.0	1901.0	1883.7	1869.1
27.5°	1817.9	1836.5	1849.8	1835.2	1815.3
30°	1760.8	1783.4	1795.3	1781.4	1758.1
32.5°	1699.7	1726.3	1733.6	1724.9	1698.4
35°	1636.6	1665.8	1669.1	1663.2	1636.6
37.5°	1570.8	1598.7	1601.4	1598.1	1570.8
40°	1501.8	1527.7	1528.3	1528.3	1501.8
42.5°	1428.0	1453.3	1453.3	1452.6	1430.0
45°	1349.7	1374.2	1376.2	1374.9	1351.7
47.5°	1272.0	1290.5	1293.9	1291.2	1270.6
50°	1184.9	1204.2	1208.2	1205.5	1189.6
52.5°	1098.6	1116.5	1120.5	1118.5	1100.6
55°	1008.3	1025.5	1028.2	1026.2	1008.3
57.5°	921.3	932.5	935.2	931.2	908.6
60°	819.6	835.6	840.2	835.6	814.3
62.5°	721.3	738.6	742.6	735.9	713.4
65°	621.7	639.0	643.6	638.3	613.7
67.5°	527.4	540.0	544.0	538.0	515.4
70°	430.4	446.3	445.7	437.7	417.8
72.5°	334.8	356.7	352.7	348.0	326.1
75°	258.4	268.3	265.7	263.0	245.1
77.5°	184.6	196.6	190.0	190.6	175.3
80°	124.2	135.5	128.9	126.2	118.2
82.5°	79.0	83.7	82.4	81.0	73.7
85°	41.2	43.8	42.5	41.2	38.5
87.5°	15.9	17.3	15.9	15.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)