

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: P412877

Luminaire Tested: **24PD-55-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

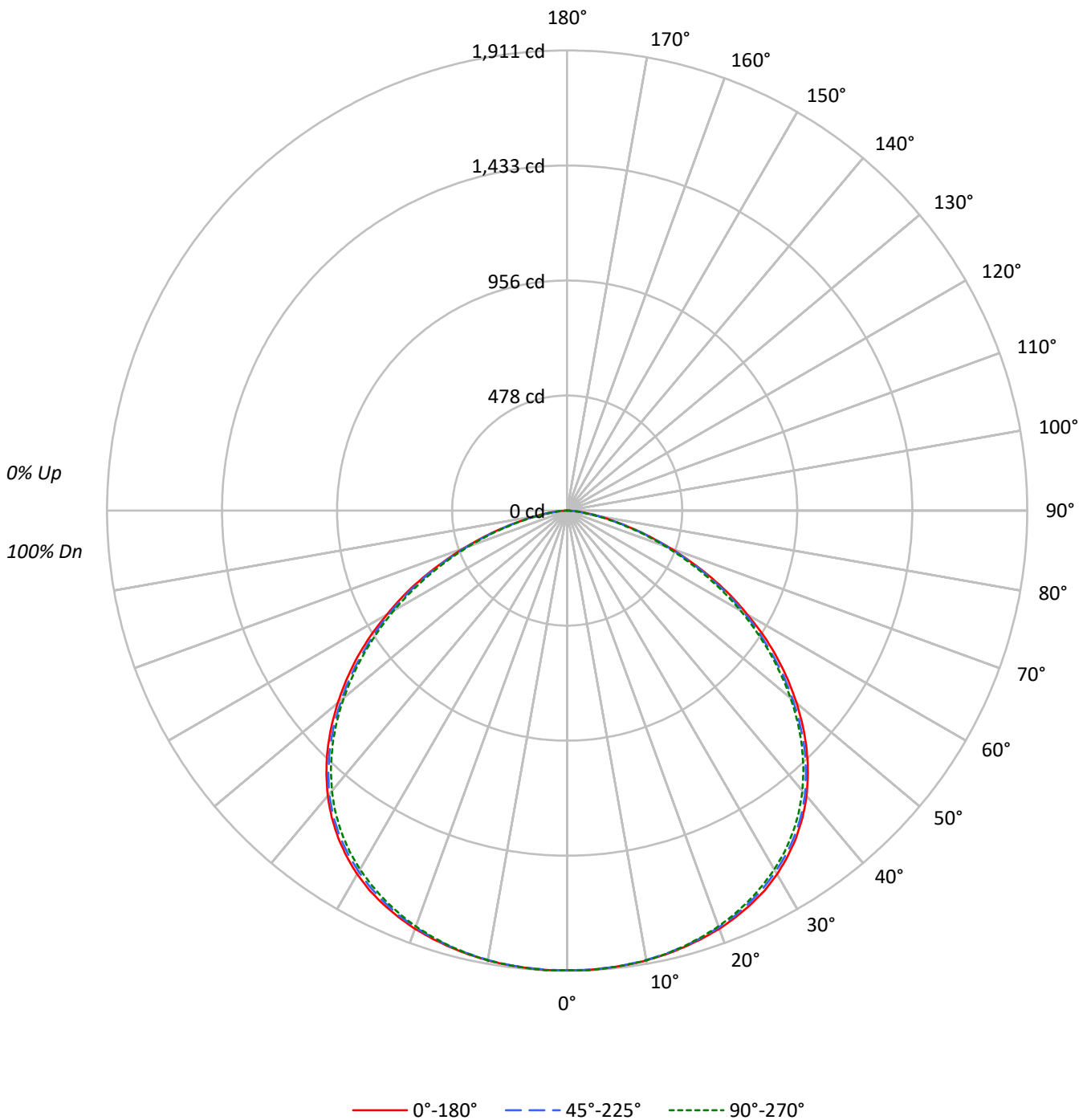
Test Method: LM-79-08  
Report Number: P412877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PP3-L840  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5555.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
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°	2569	2569	2569
5°	2576	2575	2576
10°	2592	2589	2591
15°	2614	2611	2609
20°	2646	2637	2631
25°	2679	2665	2653
30°	2709	2690	2673
35°	2724	2707	2683
40°	2716	2700	2670
45°	2678	2651	2622
50°	2604	2562	2536
55°	2496	2436	2405
60°	2326	2285	2239
65°	2109	2066	2006
70°	1799	1767	1710
75°	1405	1391	1325
80°	1037	993	938
85°	625	625	582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	3.3
10°-20°	530.0	9.5
20°-30°	828.4	14.9
30°-40°	1029.6	18.5
40°-50°	1072.7	19.3
50°-60°	930.8	16.8
60°-70°	640.1	11.5
70°-80°	288.8	5.2
80°-90°	52.9	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°	1540.1	27.7
0°-40°	2569.6	46.3
0°-60°	4573.2	82.3
0°-90°	5555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1907	1907	1906	1905	1907	182
15°	1877	1877	1874	1872	1873	531
25°	1805	1804	1795	1788	1787	833
35°	1658	1658	1648	1639	1633	1036
45°	1407	1408	1393	1383	1378	1083
55°	1064	1058	1039	1026	1025	948
65°	662	660	649	633	630	654
75°	270	272	268	260	255	294
85°	40	40	40	40	38	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	1909.6	1909.6	1908.5	1906.9	1910.8
5°	1906.9	1907.4	1906.3	1904.7	1907.4
7.5°	1903.0	1903.5	1901.9	1900.2	1902.4
10°	1896.9	1896.3	1894.7	1893.5	1896.3
12.5°	1888.0	1887.4	1885.8	1884.7	1886.9
15°	1876.9	1876.9	1874.1	1872.5	1873.0
17.5°	1863.6	1863.6	1859.7	1855.8	1856.9
20°	1848.0	1847.5	1841.9	1838.0	1837.5
22.5°	1828.6	1828.6	1820.8	1815.8	1814.2
25°	1804.7	1804.2	1795.3	1788.1	1787.0
27.5°	1777.5	1776.4	1765.9	1758.7	1755.9
30°	1743.7	1742.6	1731.5	1723.7	1720.3
32.5°	1703.7	1705.4	1692.6	1683.7	1680.4
35°	1658.2	1658.2	1648.2	1638.7	1633.2
37.5°	1606.0	1606.0	1596.6	1587.1	1580.5
40°	1546.6	1547.1	1537.2	1525.5	1519.9
42.5°	1480.0	1481.1	1467.8	1458.3	1452.2
45°	1407.3	1407.8	1393.4	1382.8	1377.8
47.5°	1328.4	1327.3	1311.2	1302.3	1297.3
50°	1244.0	1241.8	1224.1	1215.7	1211.3
52.5°	1155.8	1151.3	1135.8	1123.6	1119.7
55°	1064.2	1058.1	1038.6	1026.4	1025.3
57.5°	968.7	961.5	945.4	933.7	929.3
60°	864.3	862.7	849.3	835.5	832.1
62.5°	766.6	761.6	750.0	733.3	731.7
65°	662.3	659.5	648.9	633.4	630.1
67.5°	554.6	557.4	548.5	534.6	530.1
70°	457.4	459.1	449.1	436.3	434.7
72.5°	359.7	362.5	354.2	345.8	344.2
75°	270.3	271.5	267.6	260.4	254.8
77.5°	192.1	196.0	191.5	186.5	182.1
80°	133.8	127.7	128.2	126.0	121.0
82.5°	80.5	77.7	77.2	74.9	72.7
85°	40.5	40.0	40.5	40.0	37.7
87.5°	13.3	14.4	15.0	15.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)