

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: P412899

Luminaire Tested: **24PD-65-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

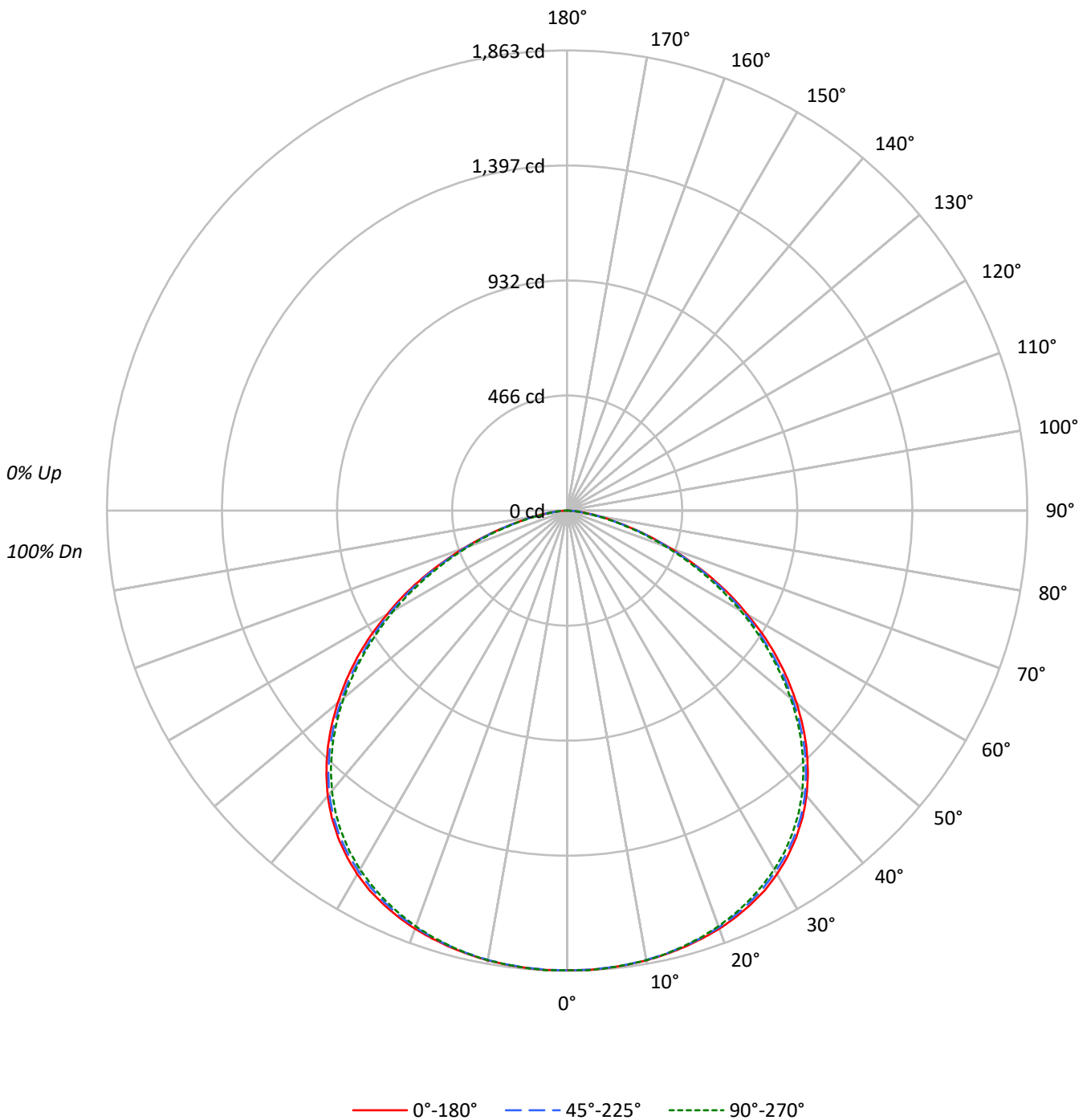
Test Method: LM-79-08  
Report Number: P412899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PP3-L935  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5415.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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): 49.7  
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	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°	2504	2504	2504
5°	2511	2510	2511
10°	2526	2523	2526
15°	2549	2545	2543
20°	2579	2571	2565
25°	2612	2598	2586
30°	2641	2622	2605
35°	2655	2639	2615
40°	2648	2632	2602
45°	2610	2585	2556
50°	2538	2498	2472
55°	2434	2375	2345
60°	2267	2228	2183
65°	2055	2014	1955
70°	1754	1722	1667
75°	1370	1356	1291
80°	1010	969	914
85°	610	610	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	3.3
10°-20°	516.6	9.5
20°-30°	807.5	14.9
30°-40°	1003.6	18.5
40°-50°	1045.7	19.3
50°-60°	907.4	16.8
60°-70°	623.9	11.5
70°-80°	281.6	5.2
80°-90°	51.6	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°	1501.2	27.7
0°-40°	2504.8	46.3
0°-60°	4457.9	82.3
0°-90°	5415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1859	1859	1858	1857	1859	177
15°	1830	1830	1827	1825	1826	517
25°	1759	1759	1750	1743	1742	812
35°	1616	1616	1607	1597	1592	1010
45°	1372	1372	1358	1348	1343	1056
55°	1037	1031	1012	1001	1000	925
65°	646	643	633	617	614	637
75°	264	265	261	254	248	287
85°	40	39	40	39	37	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1861.0	1861.0	1861.0	1861.0	1861.0
2.5°	1861.5	1861.5	1860.4	1858.8	1862.6
5°	1858.8	1859.4	1858.3	1856.6	1859.4
7.5°	1855.0	1855.6	1853.9	1852.3	1854.5
10°	1849.1	1848.5	1846.9	1845.8	1848.5
12.5°	1840.4	1839.9	1838.2	1837.2	1839.3
15°	1829.6	1829.6	1826.9	1825.3	1825.8
17.5°	1816.6	1816.6	1812.8	1809.0	1810.1
20°	1801.5	1800.9	1795.5	1791.7	1791.2
22.5°	1782.5	1782.5	1774.9	1770.1	1768.4
25°	1759.2	1758.7	1750.0	1743.0	1741.9
27.5°	1732.7	1731.6	1721.4	1714.3	1711.6
30°	1699.7	1698.6	1687.8	1680.2	1677.0
32.5°	1660.8	1662.4	1649.9	1641.3	1638.0
35°	1616.4	1616.4	1606.6	1597.4	1592.0
37.5°	1565.5	1565.5	1556.3	1547.1	1540.6
40°	1507.6	1508.2	1498.4	1487.1	1481.6
42.5°	1442.7	1443.8	1430.8	1421.6	1415.6
45°	1371.8	1372.3	1358.3	1348.0	1343.1
47.5°	1294.9	1293.9	1278.2	1269.5	1264.6
50°	1212.7	1210.5	1193.2	1185.1	1180.8
52.5°	1126.7	1122.3	1107.2	1095.3	1091.5
55°	1037.4	1031.4	1012.5	1000.6	999.5
57.5°	944.3	937.3	921.6	910.2	905.9
60°	842.6	840.9	827.9	814.4	811.2
62.5°	747.3	742.4	731.1	714.8	713.2
65°	645.6	642.9	632.6	617.4	614.2
67.5°	540.6	543.3	534.6	521.1	516.8
70°	445.9	447.5	437.8	425.3	423.7
72.5°	350.7	353.4	345.2	337.1	335.5
75°	263.5	264.6	260.8	253.8	248.4
77.5°	187.2	191.0	186.7	181.8	177.5
80°	130.4	124.5	125.0	122.8	118.0
82.5°	78.5	75.8	75.2	73.1	70.9
85°	39.5	39.0	39.5	39.0	36.8
87.5°	13.0	14.1	14.6	14.6	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)