

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: P412898

Luminaire Tested: **24PD-65-PP3-L930**

Issue Date: 9/15/2020



**Test Information**

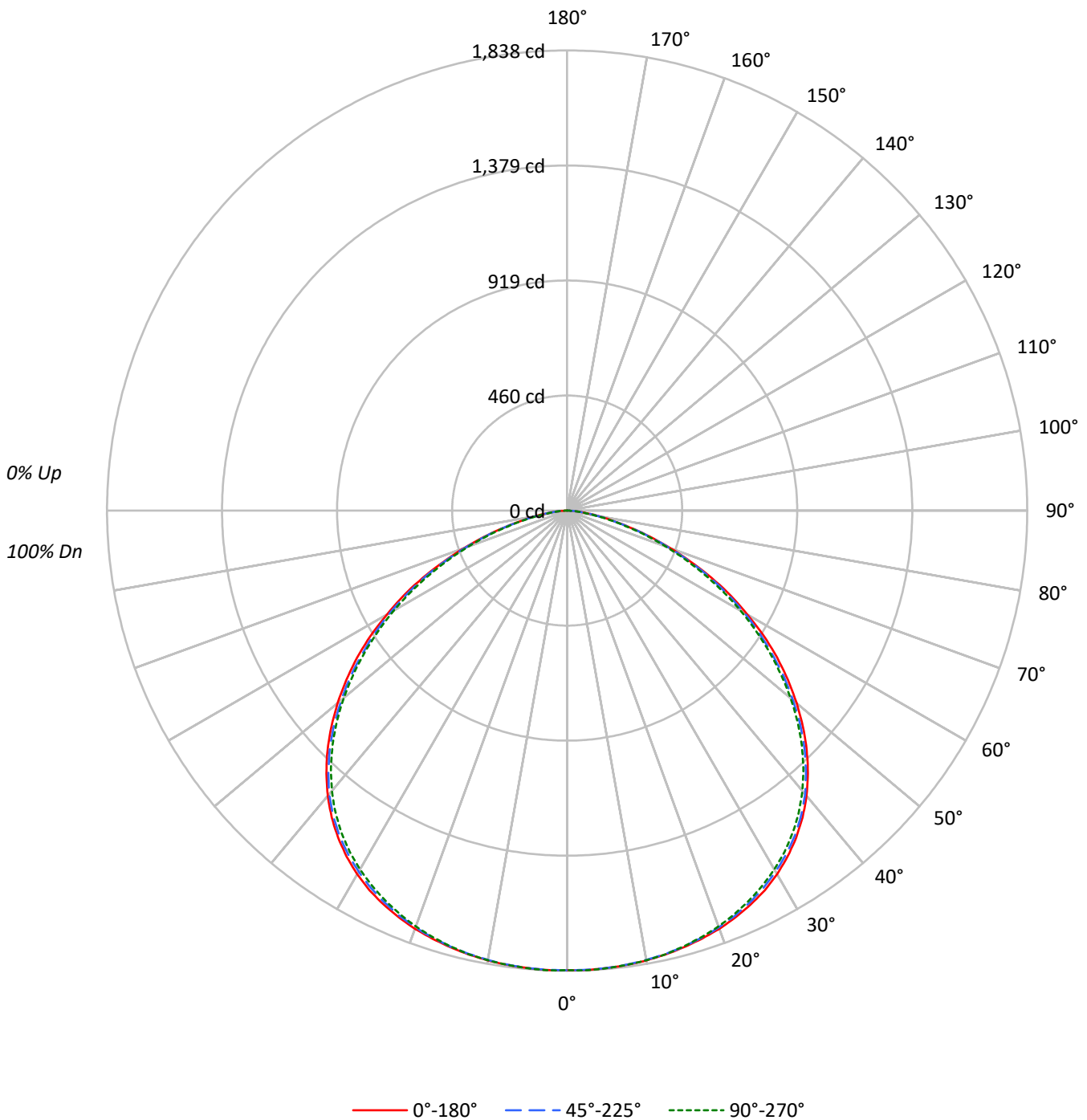
Test Method: LM-79-08  
Report Number: P412898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PP3-L930  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5343.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 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 (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

TEST NUMBER: P412898  
CATALOG NUMBER: 24PD-65-PP3-L930

### 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°	2471	2471	2471
5°	2477	2477	2478
10°	2493	2490	2492
15°	2515	2511	2509
20°	2545	2537	2531
25°	2577	2564	2552
30°	2606	2587	2571
35°	2620	2604	2580
40°	2613	2597	2568
45°	2575	2550	2522
50°	2505	2464	2439
55°	2401	2343	2313
60°	2237	2198	2154
65°	2028	1987	1929
70°	1731	1699	1645
75°	1352	1338	1274
80°	997	955	902
85°	602	602	560



TEST NUMBER: P412898

CATALOG NUMBER: 24PD-65-PP3-L930

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	3.3
10°-20°	509.8	9.5
20°-30°	796.8	14.9
30°-40°	990.3	18.5
40°-50°	1031.8	19.3
50°-60°	895.3	16.8
60°-70°	615.6	11.5
70°-80°	277.8	5.2
80°-90°	50.9	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°	1481.3	27.7
0°-40°	2471.6	46.3
0°-60°	4398.6	82.3
0°-90°	5343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1834	1835	1834	1832	1835	175
15°	1805	1805	1803	1801	1802	511
25°	1736	1735	1727	1720	1719	801
35°	1595	1595	1585	1576	1571	997
45°	1354	1354	1340	1330	1325	1042
55°	1024	1018	999	987	986	912
65°	637	634	624	609	606	629
75°	260	261	257	250	245	283
85°	39	38	39	38	36	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.2	1836.2	1836.2	1836.2	1836.2
2.5°	1836.8	1836.8	1835.7	1834.1	1837.8
5°	1834.1	1834.6	1833.6	1832.0	1834.6
7.5°	1830.4	1830.9	1829.3	1827.7	1829.8
10°	1824.5	1824.0	1822.4	1821.3	1824.0
12.5°	1815.9	1815.4	1813.8	1812.7	1814.9
15°	1805.3	1805.3	1802.6	1801.0	1801.5
17.5°	1792.4	1792.4	1788.7	1785.0	1786.0
20°	1777.5	1777.0	1771.6	1767.9	1767.4
22.5°	1758.8	1758.8	1751.3	1746.5	1744.9
25°	1735.9	1735.3	1726.8	1719.8	1718.8
27.5°	1709.7	1708.6	1698.5	1691.5	1688.9
30°	1677.1	1676.1	1665.4	1657.9	1654.7
32.5°	1638.7	1640.3	1628.0	1619.5	1616.2
35°	1594.9	1594.9	1585.3	1576.2	1570.9
37.5°	1544.7	1544.7	1535.6	1526.5	1520.1
40°	1487.6	1488.1	1478.5	1467.3	1461.9
42.5°	1423.5	1424.6	1411.7	1402.7	1396.8
45°	1353.5	1354.1	1340.2	1330.1	1325.2
47.5°	1277.7	1276.7	1261.2	1252.6	1247.8
50°	1196.6	1194.4	1177.3	1169.3	1165.1
52.5°	1111.7	1107.4	1092.4	1080.7	1077.0
55°	1023.6	1017.7	999.0	987.3	986.2
57.5°	931.7	924.8	909.3	898.1	893.8
60°	831.4	829.7	816.9	803.6	800.4
62.5°	737.4	732.6	721.4	705.3	703.7
65°	637.0	634.3	624.2	609.2	606.0
67.5°	533.4	536.1	527.5	514.2	509.9
70°	440.0	441.6	432.0	419.7	418.1
72.5°	346.0	348.7	340.7	332.6	331.0
75°	260.0	261.1	257.4	250.4	245.1
77.5°	184.7	188.5	184.2	179.4	175.1
80°	128.7	122.8	123.3	121.2	116.4
82.5°	77.4	74.8	74.2	72.1	69.9
85°	39.0	38.4	39.0	38.4	36.3
87.5°	12.8	13.9	14.4	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)