

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: P412900

Luminaire Tested: **24PD-65-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

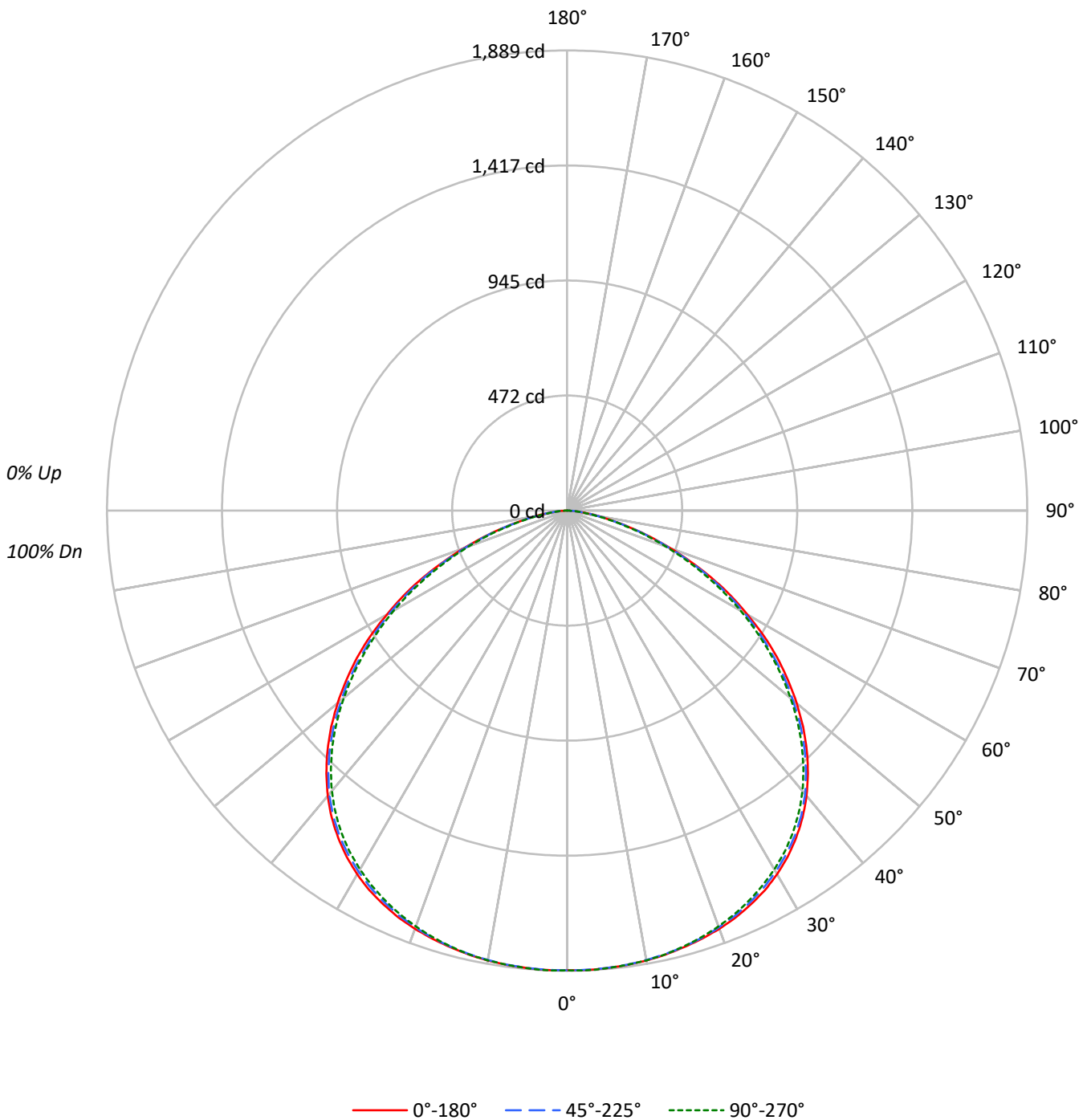
Test Method: LM-79-08  
Report Number: P412900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PP3-L940  
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5492.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 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 (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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	2539	2539	2539
5°	2546	2546	2547
10°	2562	2559	2561
15°	2585	2581	2579
20°	2616	2607	2601
25°	2649	2635	2623
30°	2678	2660	2642
35°	2693	2677	2652
40°	2686	2669	2639
45°	2647	2621	2592
50°	2574	2533	2507
55°	2468	2409	2378
60°	2299	2260	2214
65°	2085	2043	1983
70°	1779	1747	1690
75°	1390	1375	1310
80°	1025	982	927
85°	619	619	576



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	3.3
10°-20°	524.0	9.5
20°-30°	819.0	14.9
30°-40°	1017.9	18.5
40°-50°	1060.6	19.3
50°-60°	920.3	16.8
60°-70°	632.8	11.5
70°-80°	285.6	5.2
80°-90°	52.3	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°	1522.6	27.7
0°-40°	2540.5	46.3
0°-60°	4521.3	82.3
0°-90°	5492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1885	1886	1885	1883	1886	180
15°	1856	1856	1853	1851	1852	525
25°	1784	1784	1775	1768	1767	823
35°	1639	1639	1630	1620	1615	1024
45°	1391	1392	1378	1367	1362	1071
55°	1052	1046	1027	1015	1014	938
65°	655	652	642	626	623	646
75°	267	268	264	257	252	291
85°	40	40	40	40	37	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1887.4	1887.4	1887.4	1887.4	1887.4
2.5°	1888.0	1888.0	1886.9	1885.2	1889.1
5°	1885.2	1885.8	1884.7	1883.0	1885.8
7.5°	1881.4	1882.0	1880.3	1878.7	1880.9
10°	1875.4	1874.8	1873.2	1872.1	1874.8
12.5°	1866.6	1866.0	1864.4	1863.3	1865.5
15°	1855.6	1855.6	1852.9	1851.2	1851.8
17.5°	1842.4	1842.4	1838.6	1834.8	1835.8
20°	1827.1	1826.5	1821.0	1817.2	1816.6
22.5°	1807.9	1807.9	1800.2	1795.2	1793.6
25°	1784.3	1783.7	1774.9	1767.8	1766.7
27.5°	1757.4	1756.3	1745.8	1738.7	1736.0
30°	1723.9	1722.8	1711.8	1704.1	1700.8
32.5°	1684.4	1686.0	1673.4	1664.6	1661.3
35°	1639.4	1639.4	1629.5	1620.2	1614.7
37.5°	1587.8	1587.8	1578.4	1569.1	1562.5
40°	1529.1	1529.6	1519.7	1508.2	1502.7
42.5°	1463.2	1464.3	1451.1	1441.8	1435.7
45°	1391.3	1391.8	1377.6	1367.1	1362.2
47.5°	1313.4	1312.3	1296.3	1287.6	1282.6
50°	1229.9	1227.7	1210.2	1201.9	1197.6
52.5°	1142.7	1138.3	1122.9	1110.8	1107.0
55°	1052.1	1046.1	1026.9	1014.8	1013.7
57.5°	957.7	950.6	934.7	923.1	918.7
60°	854.5	852.9	839.7	826.0	822.7
62.5°	757.9	753.0	741.5	725.0	723.4
65°	654.8	652.0	641.6	626.2	622.9
67.5°	548.3	551.0	542.2	528.5	524.1
70°	452.2	453.9	444.0	431.4	429.7
72.5°	355.6	358.4	350.2	341.9	340.3
75°	267.3	268.4	264.5	257.4	251.9
77.5°	189.9	193.7	189.3	184.4	180.0
80°	132.3	126.2	126.8	124.6	119.6
82.5°	79.6	76.8	76.3	74.1	71.9
85°	40.1	39.5	40.1	39.5	37.3
87.5°	13.2	14.3	14.8	14.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)