

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: P412527

Luminaire Tested: **24PD-50-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-50-PB1-L850
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

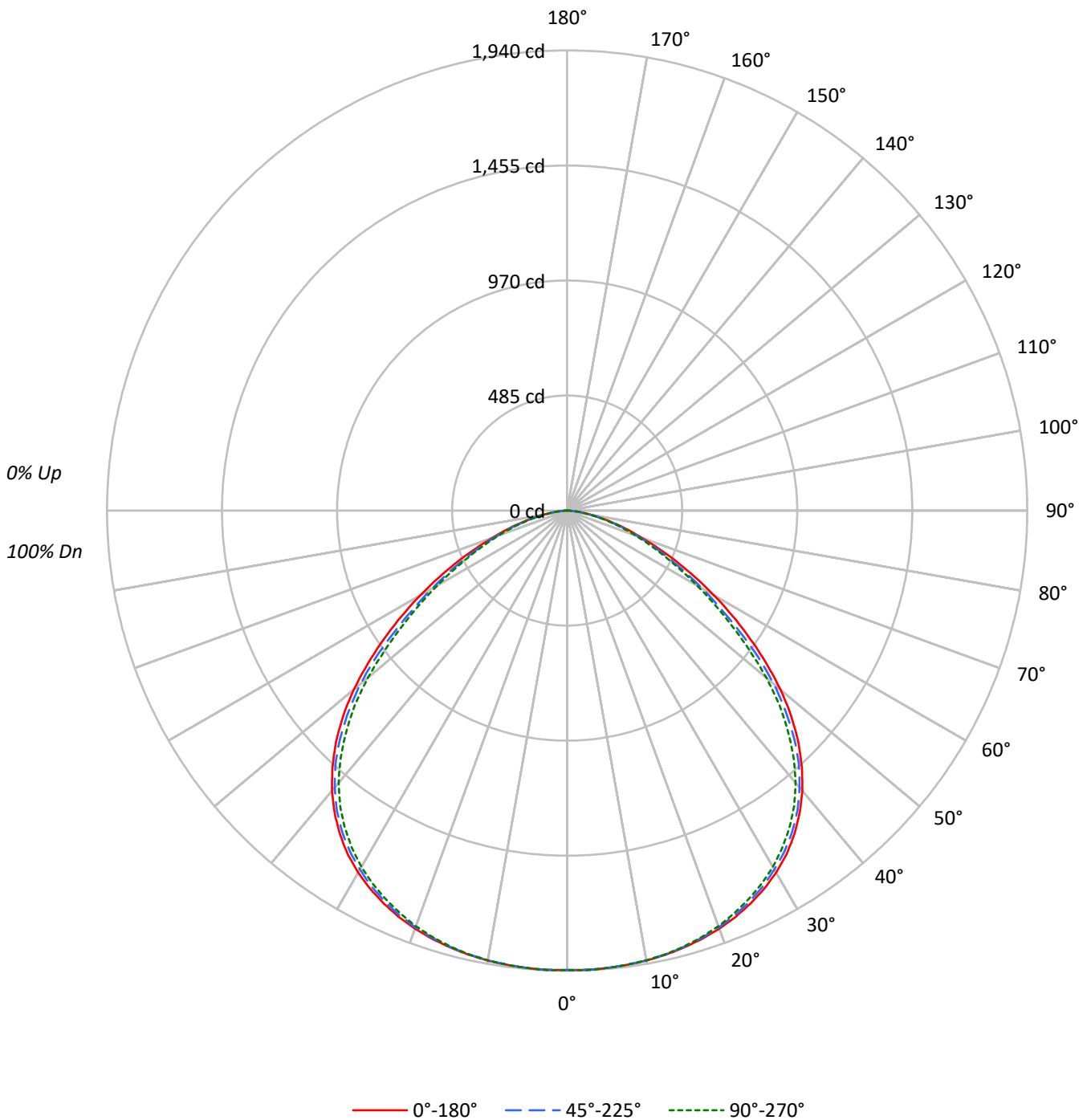
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2606	2606	2606
5°	2615	2615	2615
10°	2632	2629	2630
15°	2656	2652	2650
20°	2686	2677	2670
25°	2714	2700	2685
30°	2737	2715	2694
35°	2740	2717	2683
40°	2709	2677	2632
45°	2621	2573	2507
50°	2458	2381	2294
55°	2209	2077	1992
60°	1923	1770	1702
65°	1618	1497	1432
70°	1319	1252	1202
75°	1057	1019	977
80°	811	748	728
85°	508	491	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	3.6
10°-20°	538.3	10.4
20°-30°	838.6	16.3
30°-40°	1031.6	20.0
40°-50°	1036.2	20.1
50°-60°	798.6	15.5
60°-70°	474.1	9.2
70°-80°	211.1	4.1
80°-90°	41.2	0.8
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°	1561.2	30.3
0°-40°	2592.8	50.3
0°-60°	4427.6	85.9
0°-90°	5154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1936	1936	1936	1934	1936	184
15°	1907	1907	1904	1901	1902	539
25°	1828	1828	1819	1811	1809	843
35°	1668	1666	1654	1640	1634	1042
45°	1377	1374	1352	1330	1317	1057
55°	942	924	886	859	849	842
65°	508	486	470	452	450	508
75°	203	199	196	189	188	220
85°	33	31	32	30	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.9	1936.9	1936.9	1936.9	1936.9
2.5°	1938.0	1937.5	1937.5	1935.4	1939.5
5°	1935.9	1936.4	1935.9	1933.9	1935.9
7.5°	1931.8	1932.3	1931.3	1929.2	1931.3
10°	1926.7	1926.7	1924.6	1923.6	1925.1
12.5°	1917.9	1917.9	1915.9	1914.4	1915.9
15°	1906.7	1906.7	1904.1	1901.0	1902.5
17.5°	1892.8	1892.8	1888.7	1884.6	1885.6
20°	1875.8	1875.3	1869.7	1864.0	1864.6
22.5°	1854.3	1853.8	1846.6	1839.9	1837.9
25°	1828.1	1827.6	1818.9	1810.7	1808.6
27.5°	1797.8	1795.8	1786.0	1776.8	1774.7
30°	1761.9	1760.3	1747.5	1738.3	1734.2
32.5°	1720.3	1716.2	1704.4	1693.1	1687.4
35°	1668.4	1665.9	1654.1	1640.2	1633.5
37.5°	1609.9	1607.4	1594.5	1579.1	1571.4
40°	1542.2	1540.1	1524.2	1508.3	1498.5
42.5°	1464.1	1462.6	1445.6	1423.6	1413.3
45°	1377.4	1373.8	1352.2	1329.6	1317.3
47.5°	1280.9	1274.7	1248.5	1227.0	1213.6
50°	1174.1	1165.9	1137.6	1109.9	1096.0
52.5°	1058.6	1044.2	1014.9	983.1	969.8
55°	941.5	923.5	885.6	858.9	849.1
57.5°	827.0	800.9	764.9	745.9	736.2
60°	714.6	685.9	657.6	639.1	632.5
62.5°	607.3	583.2	559.1	540.6	536.5
65°	508.2	486.2	470.2	452.3	449.7
67.5°	415.8	405.6	391.2	375.8	373.7
70°	335.2	331.1	318.3	309.0	305.5
72.5°	267.5	263.4	254.1	247.4	246.4
75°	203.3	199.2	196.1	189.4	187.9
77.5°	144.8	145.3	142.7	139.1	140.1
80°	104.7	98.6	96.5	94.5	93.9
82.5°	64.2	60.6	59.0	58.5	59.6
85°	32.9	31.3	31.8	30.3	31.8
87.5°	11.3	11.3	11.8	11.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)