

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: P412908

Luminaire Tested: **24PD-70-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412908
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-70-PP3-L935
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

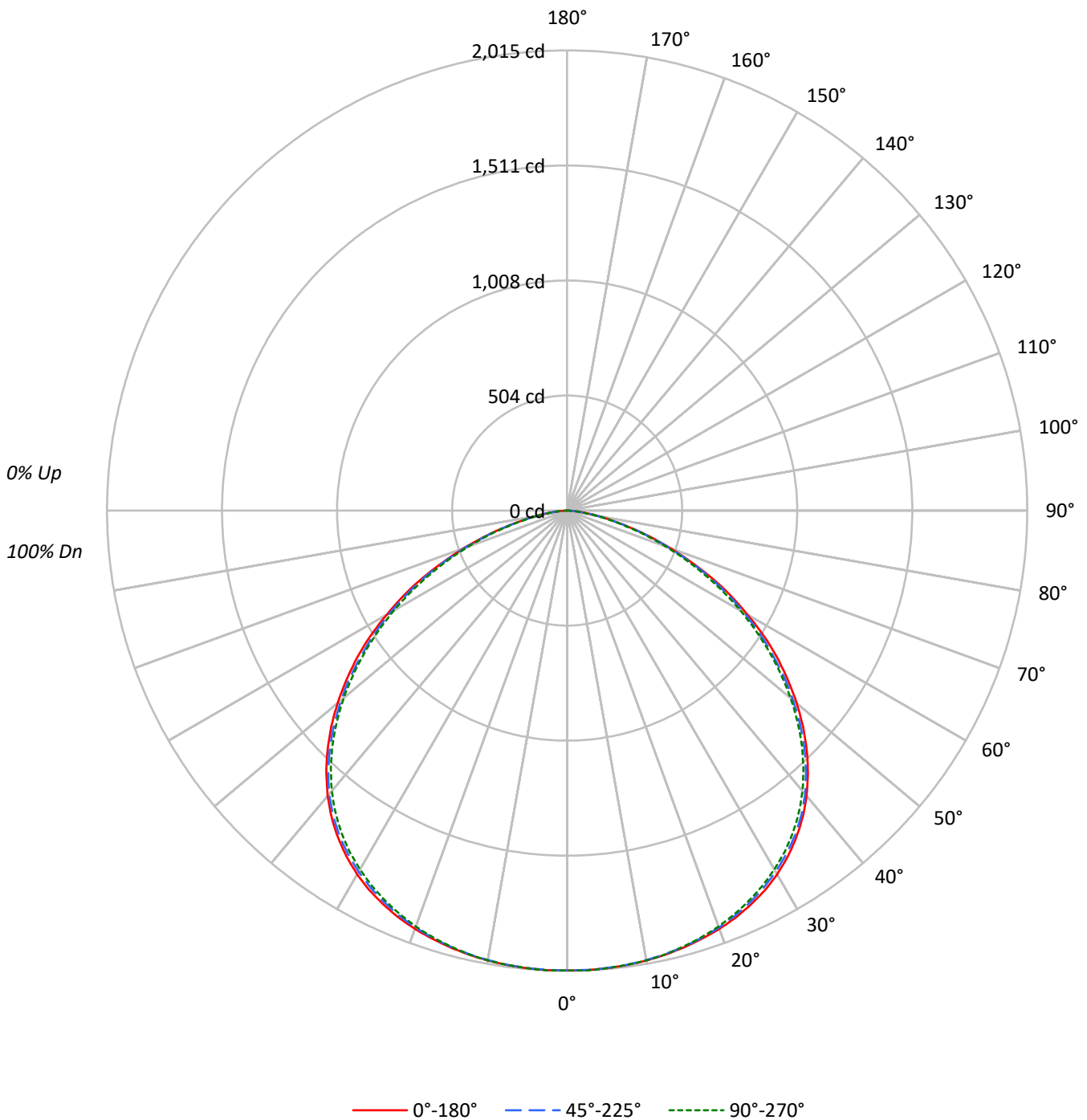
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 112.0 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): 52.3
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°	2709	2709	2709
5°	2716	2716	2717
10°	2733	2730	2733
15°	2757	2753	2752
20°	2791	2782	2775
25°	2826	2811	2798
30°	2857	2837	2819
35°	2873	2855	2829
40°	2865	2848	2816
45°	2824	2796	2765
50°	2747	2702	2674
55°	2633	2570	2537
60°	2453	2411	2362
65°	2224	2179	2116
70°	1898	1864	1804
75°	1482	1467	1397
80°	1093	1048	989
85°	659	659	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	3.3
10°-20°	559.0	9.5
20°-30°	873.8	14.9
30°-40°	1085.9	18.5
40°-50°	1131.4	19.3
50°-60°	981.8	16.8
60°-70°	675.1	11.5
70°-80°	304.6	5.2
80°-90°	55.8	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°	1624.3	27.7
0°-40°	2710.2	46.3
0°-60°	4823.4	82.3
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2011	2012	2011	2009	2012	192
15°	1980	1980	1977	1975	1976	560
25°	1904	1903	1894	1886	1885	878
35°	1749	1749	1738	1728	1723	1093
45°	1484	1485	1470	1458	1453	1142
55°	1122	1116	1096	1083	1081	1000
65°	698	696	684	668	665	689
75°	285	286	282	275	269	310
85°	43	42	43	42	40	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.6	2013.6	2013.6	2013.6	2013.6
2.5°	2014.2	2014.2	2013.0	2011.2	2015.3
5°	2011.2	2011.8	2010.6	2008.9	2011.8
7.5°	2007.1	2007.7	2006.0	2004.2	2006.5
10°	2000.7	2000.1	1998.3	1997.2	2000.1
12.5°	1991.3	1990.7	1989.0	1987.8	1990.1
15°	1979.6	1979.6	1976.7	1974.9	1975.5
17.5°	1965.6	1965.6	1961.5	1957.4	1958.5
20°	1949.2	1948.6	1942.7	1938.6	1938.0
22.5°	1928.7	1928.7	1920.5	1915.2	1913.4
25°	1903.5	1902.9	1893.5	1885.9	1884.8
27.5°	1874.8	1873.6	1862.5	1854.9	1852.0
30°	1839.1	1837.9	1826.2	1818.0	1814.5
32.5°	1796.9	1798.7	1785.2	1775.9	1772.3
35°	1748.9	1748.9	1738.4	1728.4	1722.6
37.5°	1693.9	1693.9	1683.9	1674.0	1666.9
40°	1631.2	1631.8	1621.3	1609.0	1603.1
42.5°	1561.0	1562.1	1548.1	1538.1	1531.7
45°	1484.3	1484.9	1469.6	1458.5	1453.2
47.5°	1401.1	1400.0	1383.0	1373.6	1368.3
50°	1312.1	1309.8	1291.0	1282.3	1277.6
52.5°	1219.0	1214.3	1198.0	1185.1	1181.0
55°	1122.4	1116.0	1095.5	1082.6	1081.4
57.5°	1021.7	1014.1	997.1	984.8	980.1
60°	911.6	909.9	895.8	881.2	877.7
62.5°	808.6	803.3	791.0	773.5	771.7
65°	698.5	695.6	684.5	668.1	664.6
67.5°	584.9	587.9	578.5	563.8	559.2
70°	482.5	484.2	473.7	460.2	458.5
72.5°	379.4	382.3	373.6	364.8	363.0
75°	285.1	286.3	282.2	274.6	268.7
77.5°	202.6	206.7	202.0	196.7	192.0
80°	141.1	134.7	135.3	132.9	127.6
82.5°	84.9	82.0	81.4	79.0	76.7
85°	42.7	42.2	42.7	42.2	39.8
87.5°	14.1	15.2	15.8	15.8	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)