

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: P412564

Luminaire Tested: **24PD-70-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412564
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-70-PB1-L927
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

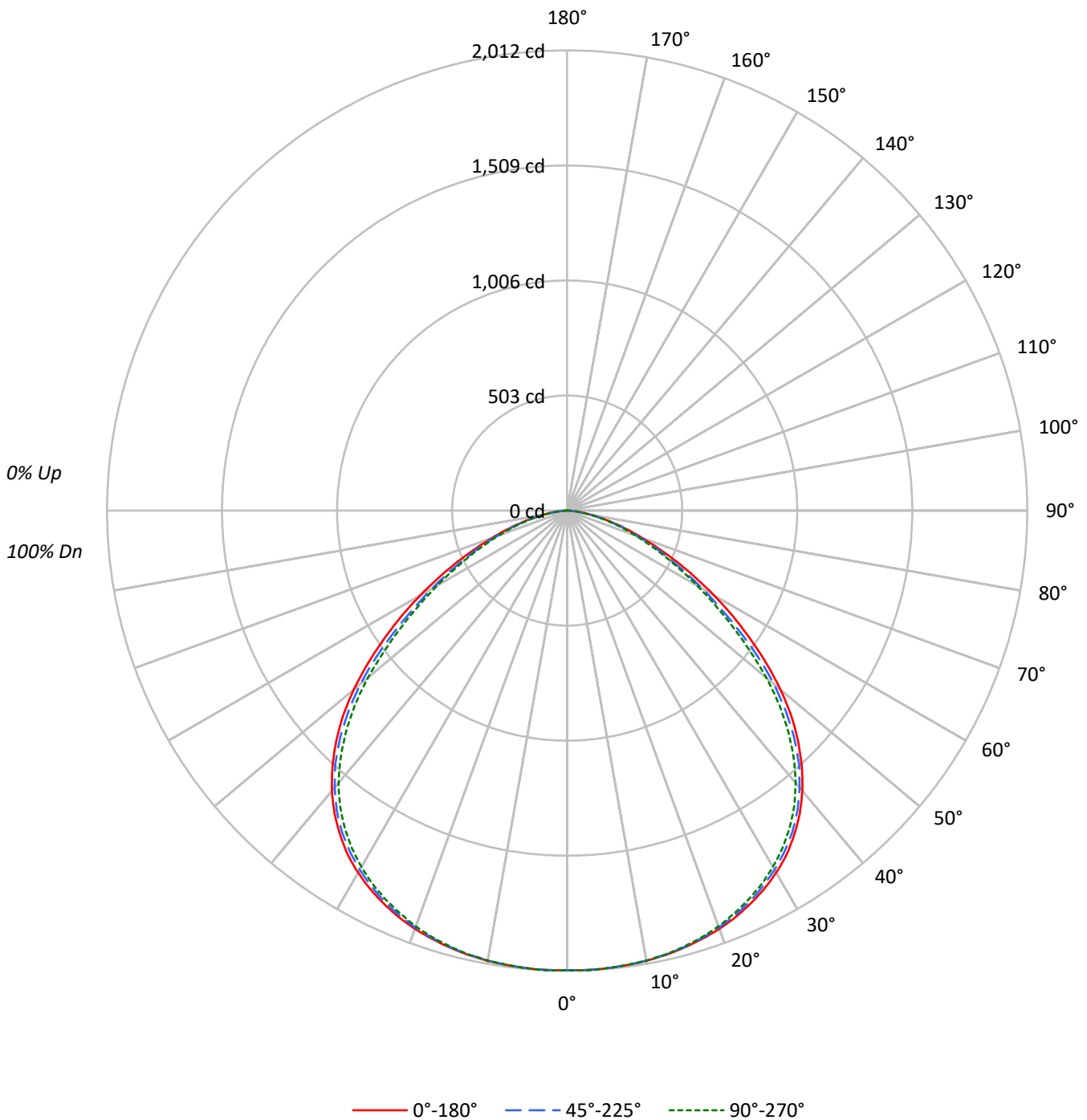
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.0 lumens
Efficiency: N/A
Efficacy: 102.3 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): 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	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°	2704	2704	2704
5°	2713	2713	2713
10°	2731	2729	2729
15°	2756	2752	2750
20°	2787	2778	2770
25°	2816	2802	2786
30°	2840	2817	2796
35°	2844	2819	2784
40°	2811	2778	2731
45°	2719	2670	2601
50°	2550	2471	2381
55°	2292	2156	2067
60°	1995	1836	1766
65°	1679	1553	1486
70°	1368	1299	1247
75°	1096	1058	1014
80°	842	776	755
85°	526	509	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	3.6
10°-20°	558.5	10.4
20°-30°	870.1	16.3
30°-40°	1070.4	20.0
40°-50°	1075.2	20.1
50°-60°	828.7	15.5
60°-70°	491.9	9.2
70°-80°	219.0	4.1
80°-90°	42.8	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°	1620.0	30.3
0°-40°	2690.4	50.3
0°-60°	4594.3	85.9
0°-90°	5348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2009	2009	2009	2007	2009	191
15°	1978	1978	1976	1973	1974	559
25°	1897	1896	1887	1879	1877	875
35°	1731	1729	1716	1702	1695	1081
45°	1429	1426	1403	1380	1367	1097
55°	977	958	919	891	881	874
65°	527	504	488	469	467	527
75°	211	207	204	197	195	228
85°	34	32	33	31	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.8	2009.8	2009.8	2009.8	2009.8
2.5°	2010.9	2010.4	2010.4	2008.2	2012.5
5°	2008.8	2009.3	2008.8	2006.7	2008.8
7.5°	2004.5	2005.1	2004.0	2001.9	2004.0
10°	1999.2	1999.2	1997.1	1996.0	1997.6
12.5°	1990.1	1990.1	1988.0	1986.4	1988.0
15°	1978.4	1978.4	1975.8	1972.6	1974.2
17.5°	1964.0	1964.0	1959.8	1955.5	1956.6
20°	1946.5	1945.9	1940.1	1934.2	1934.7
22.5°	1924.1	1923.6	1916.1	1909.2	1907.0
25°	1896.9	1896.4	1887.3	1878.8	1876.7
27.5°	1865.5	1863.4	1853.2	1843.6	1841.5
30°	1828.2	1826.6	1813.3	1803.7	1799.4
32.5°	1785.1	1780.8	1768.5	1756.8	1751.0
35°	1731.2	1728.6	1716.3	1702.0	1695.0
37.5°	1670.5	1667.9	1654.5	1638.6	1630.6
40°	1600.2	1598.1	1581.6	1565.0	1554.9
42.5°	1519.2	1517.6	1500.1	1477.2	1466.5
45°	1429.2	1425.5	1403.1	1379.7	1366.9
47.5°	1329.1	1322.7	1295.5	1273.1	1259.3
50°	1218.3	1209.7	1180.4	1151.7	1137.3
52.5°	1098.4	1083.5	1053.1	1020.1	1006.3
55°	977.0	958.3	918.9	891.2	881.1
57.5°	858.2	831.0	793.7	774.0	763.9
60°	741.5	711.7	682.4	663.2	656.3
62.5°	630.2	605.1	580.1	560.9	556.7
65°	527.4	504.5	487.9	469.3	466.6
67.5°	431.5	420.8	405.9	389.9	387.8
70°	347.8	343.6	330.3	320.7	317.0
72.5°	277.5	273.3	263.7	256.8	255.7
75°	210.9	206.7	203.5	196.6	195.0
77.5°	150.2	150.8	148.1	144.4	145.4
80°	108.7	102.3	100.1	98.0	97.5
82.5°	66.6	62.9	61.3	60.7	61.8
85°	34.1	32.5	33.0	31.4	33.0
87.5°	11.7	11.7	12.3	11.7	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)