

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: P412550

Luminaire Tested: **24PD-60-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412550
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-60-PB1-L950
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

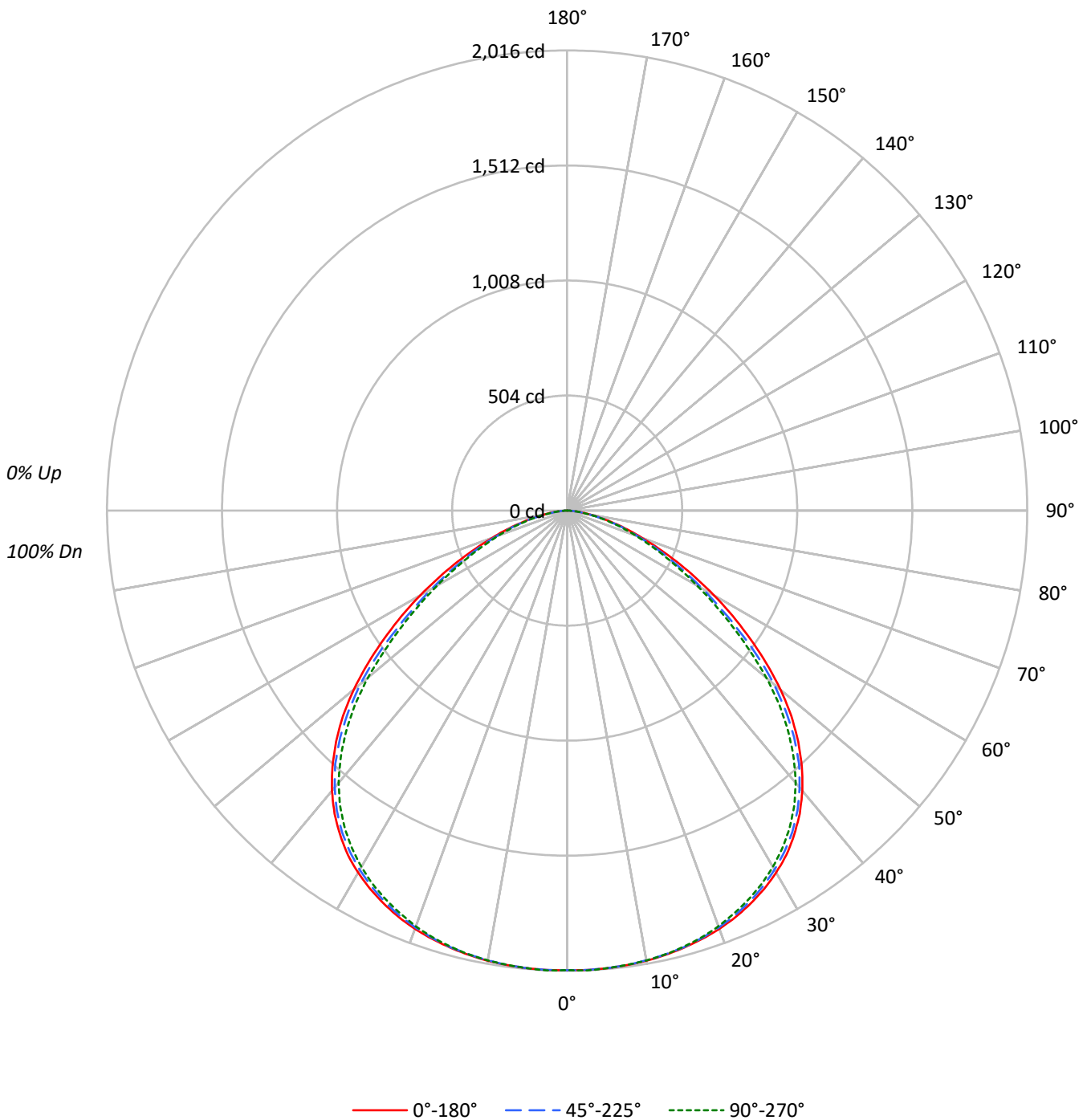
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5358.0 lumens
Efficiency: N/A
Efficacy: 118.0 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): 45.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P412550
CATALOG NUMBER: 24PD-60-PB1-L950

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°	2709	2709	2709
5°	2718	2718	2718
10°	2736	2734	2734
15°	2761	2757	2755
20°	2792	2783	2775
25°	2821	2807	2791
30°	2846	2822	2801
35°	2849	2824	2789
40°	2816	2783	2736
45°	2725	2675	2606
50°	2555	2476	2385
55°	2296	2160	2071
60°	1999	1840	1769
65°	1682	1557	1488
70°	1371	1302	1249
75°	1098	1060	1015
80°	844	777	757
85°	528	511	511



TEST NUMBER: P412550

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.6
10°-20°	559.6	10.4
20°-30°	871.7	16.3
30°-40°	1072.4	20.0
40°-50°	1077.2	20.1
50°-60°	830.2	15.5
60°-70°	492.9	9.2
70°-80°	219.4	4.1
80°-90°	42.9	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°	1623.0	30.3
0°-40°	2695.4	50.3
0°-60°	4602.8	85.9
0°-90°	5358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2012	2013	2012	2010	2012	192
15°	1982	1982	1979	1976	1978	561
25°	1900	1900	1891	1882	1880	876
35°	1734	1732	1720	1705	1698	1083
45°	1432	1428	1406	1382	1369	1099
55°	979	960	921	893	883	875
65°	528	505	489	470	468	528
75°	211	207	204	197	195	229
85°	34	33	33	32	33	45
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°	2014.7	2014.1	2014.1	2012.0	2016.3
5°	2012.5	2013.1	2012.5	2010.4	2012.5
7.5°	2008.3	2008.8	2007.7	2005.6	2007.7
10°	2002.9	2002.9	2000.8	1999.7	2001.3
12.5°	1993.9	1993.9	1991.7	1990.1	1991.7
15°	1982.1	1982.1	1979.4	1976.2	1977.8
17.5°	1967.7	1967.7	1963.4	1959.2	1960.2
20°	1950.1	1949.6	1943.7	1937.8	1938.4
22.5°	1927.7	1927.1	1919.7	1912.7	1910.6
25°	1900.5	1899.9	1890.9	1882.3	1880.2
27.5°	1869.0	1866.8	1856.7	1847.1	1845.0
30°	1831.6	1830.0	1816.7	1807.1	1802.8
32.5°	1788.4	1784.1	1771.8	1760.1	1754.2
35°	1734.5	1731.8	1719.5	1705.1	1698.2
37.5°	1673.6	1671.0	1657.6	1641.6	1633.6
40°	1603.2	1601.1	1584.5	1568.0	1557.8
42.5°	1522.1	1520.5	1502.9	1479.9	1469.2
45°	1431.9	1428.1	1405.7	1382.3	1369.4
47.5°	1331.6	1325.1	1297.9	1275.5	1261.6
50°	1220.5	1212.0	1182.7	1153.8	1139.4
52.5°	1100.5	1085.5	1055.1	1022.0	1008.1
55°	978.8	960.1	920.6	892.9	882.7
57.5°	859.8	832.6	795.2	775.4	765.3
60°	742.9	713.0	683.7	664.4	657.5
62.5°	631.4	606.3	581.2	562.0	557.7
65°	528.4	505.4	488.9	470.2	467.5
67.5°	432.3	421.6	406.7	390.7	388.5
70°	348.5	344.2	330.9	321.3	317.5
72.5°	278.1	273.8	264.2	257.2	256.2
75°	211.3	207.1	203.9	196.9	195.3
77.5°	150.5	151.0	148.4	144.6	145.7
80°	108.9	102.5	100.3	98.2	97.7
82.5°	66.7	63.0	61.4	60.8	61.9
85°	34.2	32.6	33.1	31.5	33.1
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)