

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: P412401

Luminaire Tested: **22PD-45-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PB1-L850
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

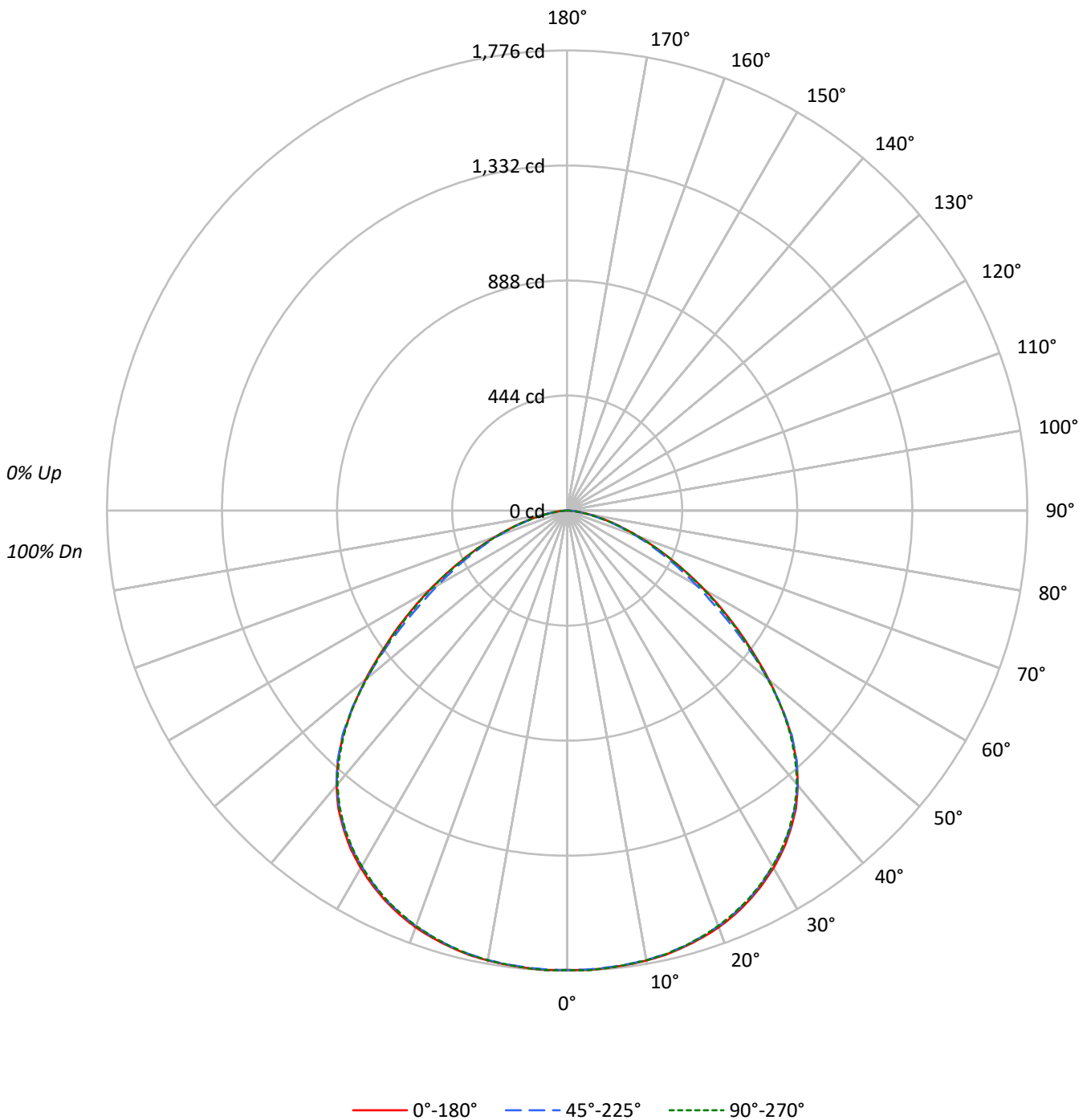
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4655.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.2
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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4771	4771	4771
5°	4787	4782	4788
10°	4818	4812	4815
15°	4857	4849	4849
20°	4902	4887	4884
25°	4932	4918	4913
30°	4949	4928	4925
35°	4938	4924	4915
40°	4865	4859	4844
45°	4651	4665	4630
50°	4258	4235	4230
55°	3784	3650	3758
60°	3299	3098	3278
65°	2797	2646	2783
70°	2312	2217	2290
75°	1869	1750	1796
80°	1351	1308	1300
85°	880	880	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.6
10°-20°	492.0	10.6
20°-30°	763.5	16.4
30°-40°	936.3	20.1
40°-50°	935.9	20.1
50°-60°	709.0	15.2
60°-70°	425.2	9.1
70°-80°	187.2	4.0
80°-90°	37.1	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°	1424.2	30.6
0°-40°	2360.5	50.7
0°-60°	4005.4	86.0
0°-90°	4655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1772	1770	1770	1770	1772	169
15°	1744	1742	1741	1740	1741	493
25°	1661	1658	1656	1654	1655	766
35°	1503	1503	1499	1498	1496	939
45°	1222	1224	1226	1223	1217	936
55°	806	789	778	788	801	723
65°	439	424	416	423	437	439
75°	180	176	168	171	173	192
85°	28	30	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1773.1	1773.1	1773.1	1773.1	1773.1
2.5°	1774.7	1772.0	1772.5	1772.5	1775.8
5°	1772.0	1769.8	1770.3	1769.8	1772.5
7.5°	1768.2	1766.0	1766.5	1766.0	1767.6
10°	1763.2	1761.0	1761.0	1759.9	1762.1
12.5°	1756.6	1753.9	1752.8	1752.3	1753.9
15°	1743.5	1741.8	1740.7	1739.6	1740.7
17.5°	1729.2	1726.5	1725.4	1723.2	1725.4
20°	1711.7	1707.8	1706.7	1705.1	1705.6
22.5°	1688.7	1685.4	1683.7	1681.0	1682.1
25°	1661.2	1657.9	1656.3	1653.6	1654.7
27.5°	1629.4	1627.2	1623.4	1621.2	1621.8
30°	1592.7	1590.5	1586.1	1585.0	1585.0
32.5°	1552.1	1549.4	1545.6	1544.5	1543.9
35°	1503.3	1502.8	1499.0	1497.9	1496.2
37.5°	1450.2	1449.1	1444.7	1443.6	1441.9
40°	1384.9	1383.8	1383.3	1381.1	1378.9
42.5°	1309.3	1310.9	1312.0	1307.6	1303.2
45°	1222.1	1223.7	1225.9	1222.6	1216.6
47.5°	1120.1	1126.7	1123.4	1125.6	1119.6
50°	1017.0	1017.0	1011.5	1013.7	1010.4
52.5°	909.0	900.2	893.7	898.1	902.4
55°	806.5	789.0	778.0	788.4	801.0
57.5°	708.4	687.5	667.2	683.7	699.0
60°	613.0	588.8	575.7	587.7	609.1
62.5°	522.5	505.0	491.8	501.1	519.2
65°	439.2	423.8	415.6	422.7	437.0
67.5°	363.0	352.5	344.3	350.3	361.3
70°	293.9	291.1	281.8	284.5	291.1
72.5°	230.8	230.3	222.0	224.2	228.1
75°	179.8	176.0	168.3	171.1	172.7
77.5°	127.2	128.8	121.7	123.4	123.4
80°	87.2	89.9	84.4	83.3	83.9
82.5°	55.4	55.4	54.8	54.3	52.6
85°	28.5	29.6	28.5	27.4	27.4
87.5°	11.0	11.0	11.0	10.4	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)