

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: P412752

Luminaire Tested: **22PD-50-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PP3-L850
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

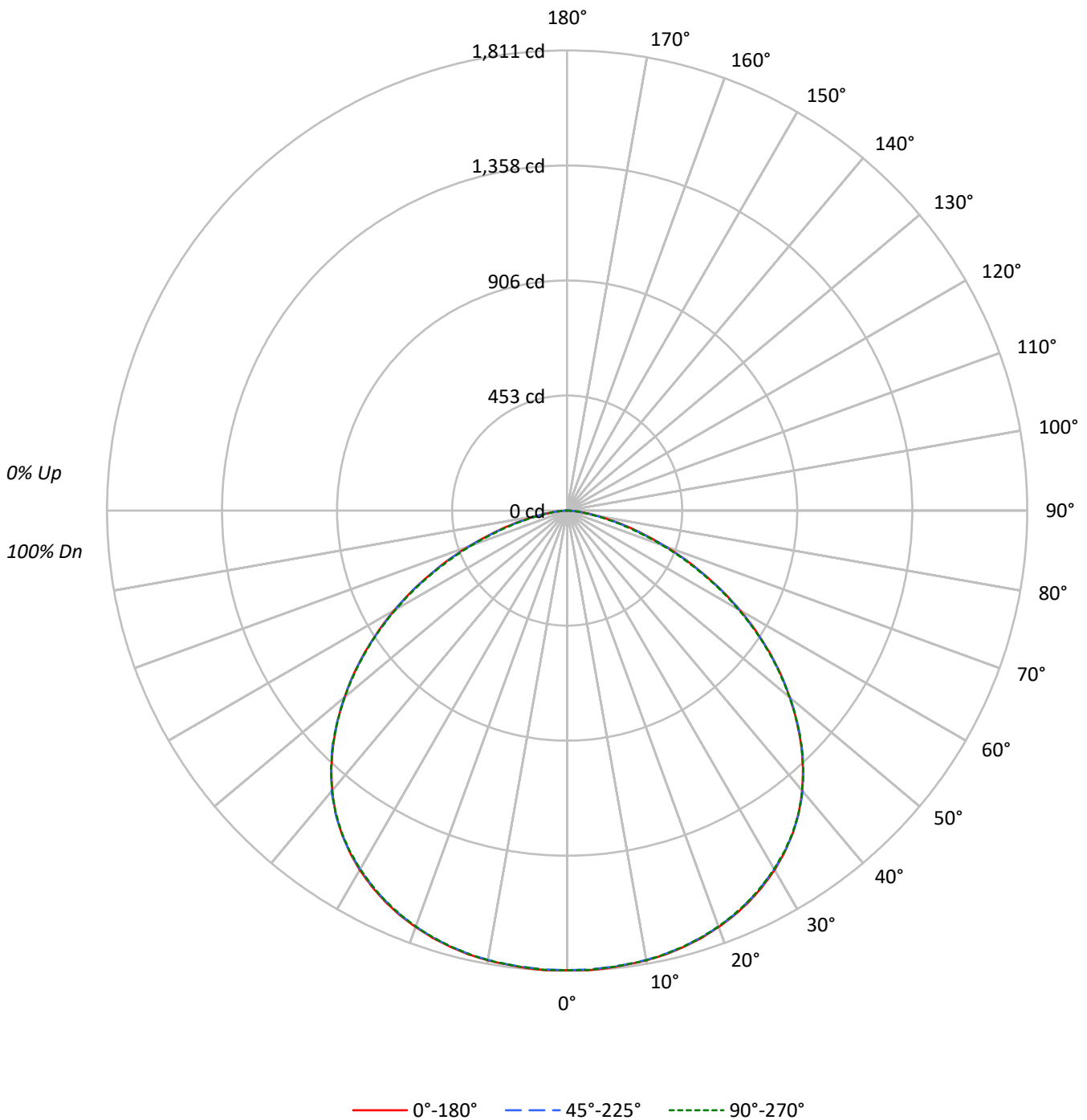
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
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

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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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	4867	4867	4867
5°	4882	4876	4879
10°	4912	4906	4909
15°	4951	4946	4946
20°	4994	4989	4987
25°	5038	5029	5029
30°	5074	5065	5062
35°	5088	5088	5082
40°	5055	5065	5055
45°	4955	4969	4962
50°	4788	4796	4783
55°	4558	4547	4539
60°	4231	4222	4189
65°	3780	3776	3734
70°	3231	3212	3141
75°	2574	2498	2424
80°	1835	1796	1703
85°	1192	1192	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.3
10°-20°	501.7	9.7
20°-30°	781.2	15.1
30°-40°	966.9	18.6
40°-50°	1002.6	19.3
50°-60°	864.2	16.7
60°-70°	587.5	11.3
70°-80°	262.9	5.1
80°-90°	50.1	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°	1454.9	28.0
0°-40°	2421.8	46.7
0°-60°	4288.5	82.6
0°-90°	5189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1807	1804	1805	1804	1806	172
15°	1777	1774	1775	1774	1775	502
25°	1697	1694	1694	1693	1694	782
35°	1549	1547	1549	1546	1547	967
45°	1302	1301	1306	1303	1304	1002
55°	972	968	969	967	967	866
65°	594	598	593	591	586	589
75°	248	248	240	239	233	266
85°	39	40	39	37	37	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.6	1808.6	1808.6	1808.6	1808.6
2.5°	1811.0	1807.4	1807.4	1808.0	1809.8
5°	1807.4	1803.8	1805.0	1804.4	1806.2
7.5°	1802.6	1799.5	1801.4	1800.1	1801.4
10°	1797.7	1794.7	1795.3	1794.7	1796.5
12.5°	1789.3	1785.7	1786.9	1786.9	1787.5
15°	1777.2	1774.2	1775.4	1774.2	1775.4
17.5°	1762.7	1759.1	1759.7	1759.1	1760.3
20°	1744.0	1741.6	1742.2	1741.0	1741.6
22.5°	1722.8	1719.8	1720.4	1719.2	1719.2
25°	1696.9	1694.5	1693.9	1693.3	1693.9
27.5°	1666.7	1663.7	1663.7	1663.1	1663.1
30°	1632.9	1629.9	1629.9	1629.2	1629.2
32.5°	1593.0	1591.8	1592.4	1591.2	1590.6
35°	1548.9	1547.1	1548.9	1546.5	1547.1
37.5°	1497.6	1495.2	1498.8	1496.4	1497.0
40°	1439.0	1437.8	1442.0	1440.2	1439.0
42.5°	1373.8	1373.8	1375.6	1376.2	1375.0
45°	1301.9	1300.7	1305.6	1302.6	1303.8
47.5°	1224.7	1222.8	1226.5	1225.9	1225.3
50°	1143.7	1142.5	1145.5	1142.5	1142.5
52.5°	1059.8	1059.2	1059.8	1056.8	1056.2
55°	971.6	968.0	969.2	967.4	967.4
57.5°	879.8	875.6	876.2	875.6	876.2
60°	786.2	785.0	784.4	781.4	778.4
62.5°	690.2	691.4	690.8	686.6	683.6
65°	593.6	598.4	593.0	591.2	586.4
67.5°	502.4	504.2	500.6	496.4	490.9
70°	410.6	414.3	408.2	404.0	399.2
72.5°	323.1	325.5	320.1	317.6	311.6
75°	247.6	248.2	240.3	239.1	233.1
77.5°	176.3	178.7	172.7	172.7	166.7
80°	118.4	122.6	115.9	114.1	109.9
82.5°	74.3	74.9	73.1	71.3	69.4
85°	38.6	39.9	38.6	37.4	37.4
87.5°	14.5	15.1	14.5	13.9	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)