

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: P413094

Luminaire Tested: **22PD-50-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PC3-L850
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

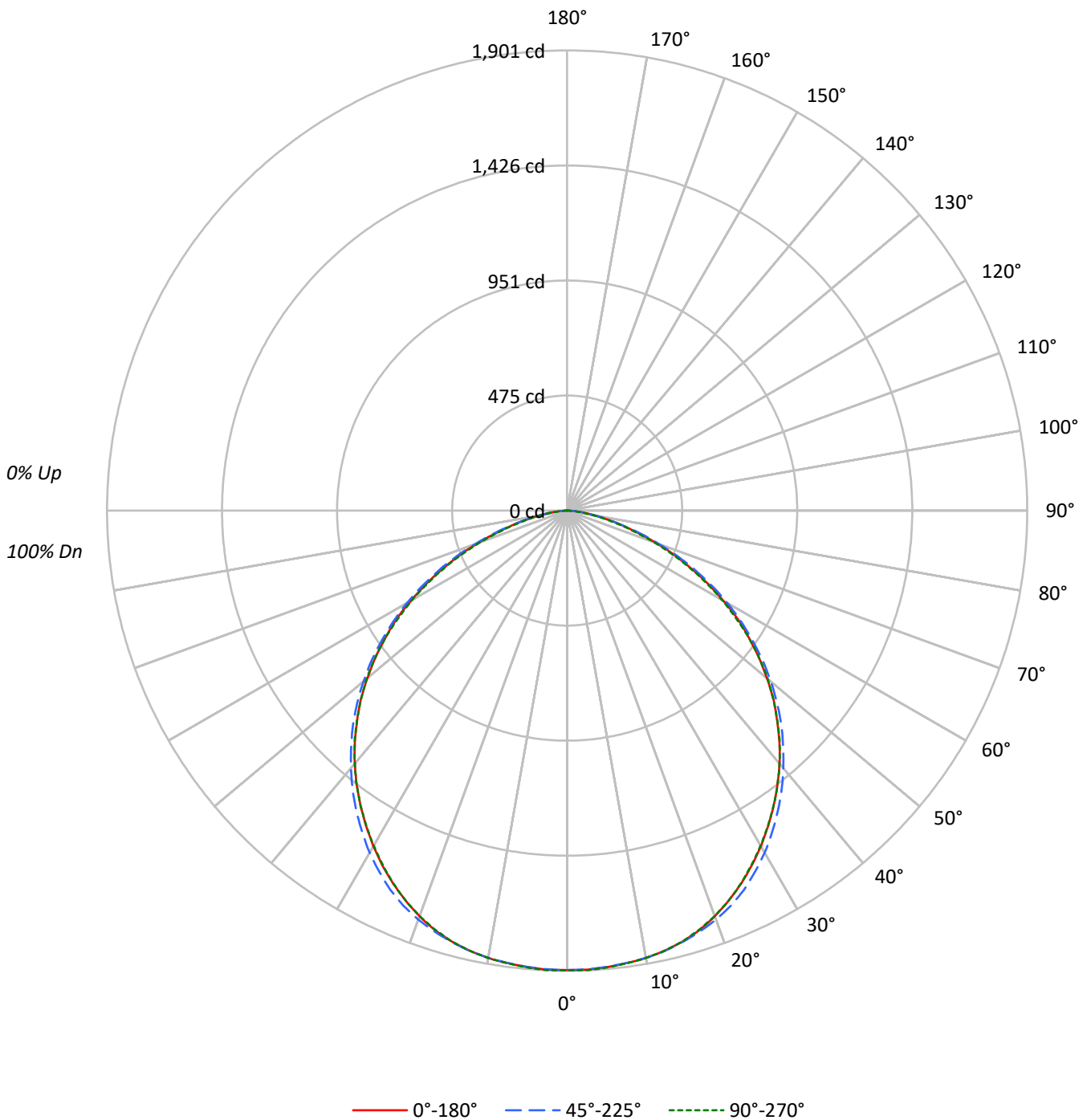
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5100.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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 (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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5109	5109	5109
5°	5115	5112	5118
10°	5128	5126	5128
15°	5134	5141	5132
20°	5108	5149	5105
25°	5049	5131	5045
30°	4974	5071	4966
35°	4888	4985	4888
40°	4796	4881	4796
45°	4669	4761	4676
50°	4510	4598	4527
55°	4300	4385	4300
60°	4010	4111	3984
65°	3599	3726	3552
70°	3079	3188	2988
75°	2442	2511	2316
80°	1750	1815	1666
85°	1155	1192	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.5
10°-20°	520.3	10.2
20°-30°	789.3	15.5
30°-40°	942.7	18.5
40°-50°	958.7	18.8
50°-60°	829.2	16.3
60°-70°	570.6	11.2
70°-80°	259.0	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°	1489.7	29.2
0°-40°	2432.4	47.7
0°-60°	4220.3	82.8
0°-90°	5100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1894	1892	1892	1892	1895	180
15°	1843	1844	1845	1842	1842	520
25°	1700	1716	1728	1712	1699	783
35°	1488	1514	1517	1512	1488	931
45°	1227	1249	1251	1250	1229	946
55°	917	932	935	933	917	819
65°	565	581	585	580	558	561
75°	235	244	242	239	223	253
85°	37	40	39	37	35	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.4	1898.4	1898.4	1898.4	1898.4
2.5°	1898.4	1896.0	1896.6	1897.2	1900.8
5°	1893.6	1891.8	1892.4	1892.4	1894.8
7.5°	1885.7	1885.1	1885.1	1884.5	1886.3
10°	1876.7	1875.5	1876.1	1875.5	1876.7
12.5°	1862.8	1862.8	1863.4	1861.6	1862.8
15°	1842.9	1844.1	1845.3	1842.3	1842.3
17.5°	1817.5	1820.5	1823.5	1818.1	1815.1
20°	1783.7	1790.9	1798.2	1789.7	1782.5
22.5°	1744.4	1756.5	1767.4	1754.1	1744.4
25°	1700.4	1715.5	1728.1	1712.4	1699.2
27.5°	1652.7	1669.6	1681.6	1668.4	1650.2
30°	1600.7	1621.3	1632.1	1619.5	1598.3
32.5°	1545.2	1569.3	1576.0	1568.1	1544.0
35°	1487.8	1514.4	1517.4	1512.0	1487.8
37.5°	1428.0	1453.4	1455.8	1452.8	1428.0
40°	1365.2	1388.8	1389.4	1389.4	1365.2
42.5°	1298.2	1321.2	1321.2	1320.6	1300.0
45°	1227.0	1249.3	1251.1	1249.9	1228.8
47.5°	1156.3	1173.2	1176.2	1173.8	1155.1
50°	1077.2	1094.7	1098.4	1095.9	1081.4
52.5°	998.7	1015.0	1018.6	1016.8	1000.5
55°	916.6	932.3	934.7	932.9	916.6
57.5°	837.5	847.8	850.2	846.6	826.0
60°	745.1	759.6	763.8	759.6	740.3
62.5°	655.8	671.5	675.1	669.0	648.5
65°	565.2	580.9	585.1	580.3	557.9
67.5°	479.4	490.9	494.5	489.1	468.6
70°	391.3	405.8	405.2	397.9	379.8
72.5°	304.3	324.3	320.6	316.4	296.5
75°	234.9	243.9	241.5	239.1	222.8
77.5°	167.9	178.7	172.7	173.3	159.4
80°	112.9	123.2	117.1	114.7	107.5
82.5°	71.9	76.1	74.9	73.7	67.0
85°	37.4	39.9	38.6	37.4	35.0
87.5°	14.5	15.7	14.5	14.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)