

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: P413091

Luminaire Tested: **22PD-50-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413091
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-L830
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

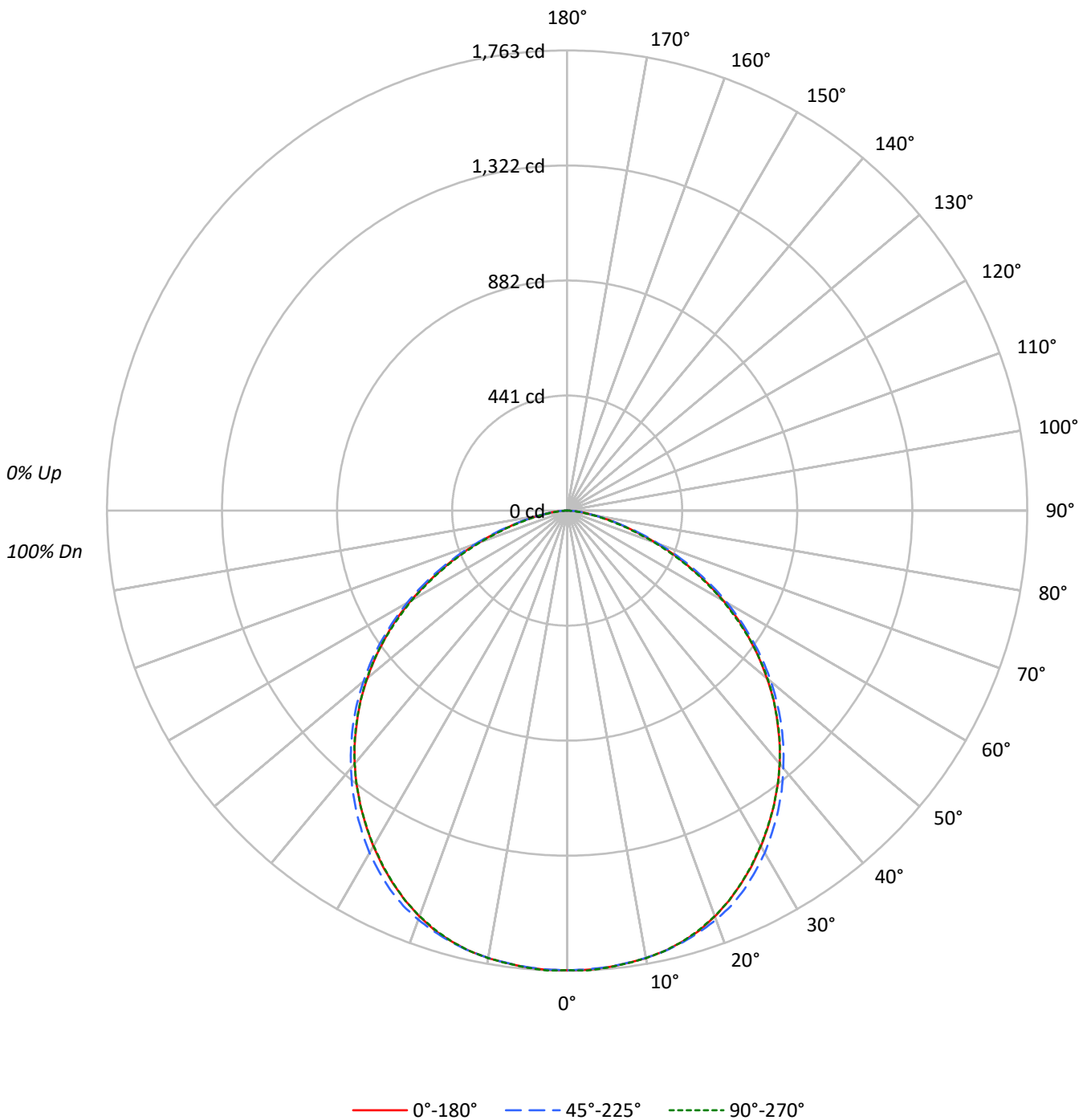
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4731.0 lumens
Efficiency: N/A
Efficacy: 111.3 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 (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: P413091
CATALOG NUMBER: 22PD-50-PC3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P413091

CATALOG NUMBER: 22PD-50-PC3-L830

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°	4739	4739	4739
5°	4745	4742	4748
10°	4757	4755	4757
15°	4763	4769	4761
20°	4738	4777	4735
25°	4683	4760	4680
30°	4614	4704	4607
35°	4534	4624	4534
40°	4449	4528	4449
45°	4332	4417	4338
50°	4183	4266	4200
55°	3989	4068	3989
60°	3720	3814	3696
65°	3338	3456	3296
70°	2856	2957	2772
75°	2266	2330	2149
80°	1623	1684	1545
85°	1071	1105	1003



TEST NUMBER: P413091

CATALOG NUMBER: 22PD-50-PC3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.5
10°-20°	482.6	10.2
20°-30°	732.2	15.5
30°-40°	874.5	18.5
40°-50°	889.3	18.8
50°-60°	769.2	16.3
60°-70°	529.3	11.2
70°-80°	240.2	5.1
80°-90°	46.5	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°	1381.9	29.2
0°-40°	2256.4	47.7
0°-60°	3914.9	82.8
0°-90°	4731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1757	1755	1756	1756	1758	167
15°	1710	1711	1712	1709	1709	482
25°	1577	1591	1603	1588	1576	727
35°	1380	1405	1408	1403	1380	863
45°	1138	1159	1161	1160	1140	878
55°	850	865	867	865	850	760
65°	524	539	543	538	518	520
75°	218	226	224	222	207	234
85°	35	37	36	35	32	45
90°	0	0	0	0	0	



TEST NUMBER: P413091

CATALOG NUMBER: 22PD-50-PC3-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.1	1761.1	1761.1	1761.1	1761.1
2.5°	1761.1	1758.8	1759.4	1759.9	1763.3
5°	1756.6	1754.9	1755.5	1755.5	1757.7
7.5°	1749.3	1748.7	1748.7	1748.2	1749.9
10°	1740.9	1739.8	1740.3	1739.8	1740.9
12.5°	1728.0	1728.0	1728.6	1726.9	1728.0
15°	1709.5	1710.6	1711.8	1709.0	1709.0
17.5°	1686.0	1688.8	1691.6	1686.6	1683.8
20°	1654.6	1661.4	1668.1	1660.2	1653.5
22.5°	1618.2	1629.4	1639.5	1627.2	1618.2
25°	1577.3	1591.3	1603.1	1588.5	1576.2
27.5°	1533.1	1548.8	1560.0	1547.6	1530.8
30°	1484.9	1504.0	1514.0	1502.3	1482.7
32.5°	1433.4	1455.8	1461.9	1454.7	1432.3
35°	1380.2	1404.8	1407.6	1402.6	1380.2
37.5°	1324.7	1348.2	1350.5	1347.7	1324.7
40°	1266.5	1288.3	1288.9	1288.9	1266.5
42.5°	1204.3	1225.6	1225.6	1225.0	1206.0
45°	1138.2	1158.9	1160.6	1159.5	1139.9
47.5°	1072.7	1088.3	1091.1	1088.9	1071.5
50°	999.3	1015.5	1018.9	1016.6	1003.2
52.5°	926.5	941.6	944.9	943.3	928.1
55°	850.3	864.8	867.1	865.4	850.3
57.5°	776.9	786.4	788.7	785.3	766.3
60°	691.2	704.6	708.6	704.6	686.7
62.5°	608.3	622.9	626.2	620.6	601.6
65°	524.3	538.8	542.8	538.3	517.6
67.5°	444.7	455.4	458.7	453.7	434.7
70°	363.0	376.4	375.8	369.1	352.3
72.5°	282.3	300.8	297.4	293.5	275.0
75°	217.9	226.3	224.1	221.8	206.7
77.5°	155.7	165.8	160.2	160.8	147.9
80°	104.7	114.3	108.7	106.4	99.7
82.5°	66.7	70.6	69.5	68.3	62.2
85°	34.7	37.0	35.8	34.7	32.5
87.5°	13.4	14.6	13.4	13.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)