

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: P413093

Luminaire Tested: **22PD-50-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413093
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-L840
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

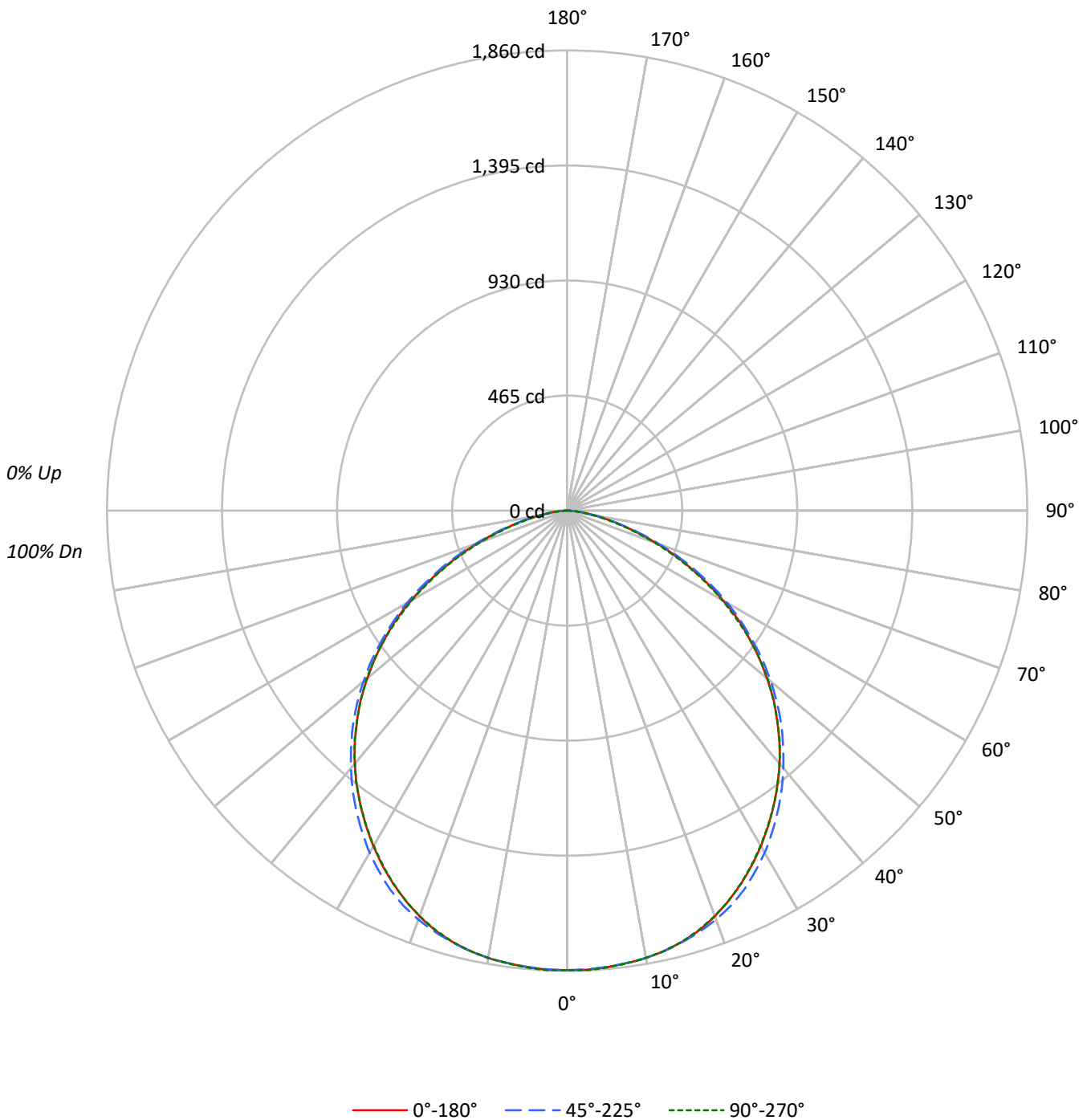
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4990.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

TEST NUMBER: P413093
CATALOG NUMBER: 22PD-50-PC3-L840

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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4998	4998	4998
5°	5005	5002	5008
10°	5017	5016	5017
15°	5023	5030	5022
20°	4998	5038	4994
25°	4940	5021	4936
30°	4867	4962	4859
35°	4782	4877	4782
40°	4692	4775	4692
45°	4569	4658	4575
50°	4412	4499	4430
55°	4207	4291	4207
60°	3923	4022	3898
65°	3521	3645	3476
70°	3012	3119	2924
75°	2389	2457	2267
80°	1712	1776	1630
85°	1130	1167	1059



TEST NUMBER: P413093

CATALOG NUMBER: 22PD-50-PC3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.5
10°-20°	509.0	10.2
20°-30°	772.3	15.5
30°-40°	922.3	18.5
40°-50°	938.0	18.8
50°-60°	811.3	16.3
60°-70°	558.3	11.2
70°-80°	253.4	5.1
80°-90°	49.1	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°	1457.6	29.2
0°-40°	2379.9	47.7
0°-60°	4129.3	82.8
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1858	1858	1858	1858	1858	
5°	1853	1851	1852	1852	1854	176
15°	1803	1804	1806	1802	1802	509
25°	1664	1678	1691	1676	1662	766
35°	1456	1482	1485	1479	1456	911
45°	1200	1222	1224	1223	1202	926
55°	897	912	915	913	897	801
65°	553	568	572	568	546	549
75°	230	239	236	234	218	247
85°	37	39	38	37	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1857.5	1855.1	1855.7	1856.3	1859.8
5°	1852.7	1851.0	1851.6	1851.6	1853.9
7.5°	1845.1	1844.5	1844.5	1843.9	1845.7
10°	1836.2	1835.0	1835.6	1835.0	1836.2
12.5°	1822.6	1822.6	1823.2	1821.4	1822.6
15°	1803.1	1804.3	1805.5	1802.5	1802.5
17.5°	1778.3	1781.3	1784.2	1778.9	1775.9
20°	1745.2	1752.3	1759.4	1751.1	1744.0
22.5°	1706.8	1718.6	1729.3	1716.3	1706.8
25°	1663.7	1678.5	1690.9	1675.5	1662.5
27.5°	1617.0	1633.6	1645.4	1632.4	1614.7
30°	1566.2	1586.3	1596.9	1584.5	1563.8
32.5°	1511.9	1535.5	1542.0	1534.3	1510.7
35°	1455.7	1481.7	1484.7	1479.4	1455.7
37.5°	1397.2	1422.1	1424.4	1421.5	1397.2
40°	1335.8	1358.8	1359.4	1359.4	1335.8
42.5°	1270.2	1292.7	1292.7	1292.1	1272.0
45°	1200.5	1222.4	1224.1	1223.0	1202.3
47.5°	1131.4	1147.9	1150.9	1148.5	1130.2
50°	1054.0	1071.1	1074.7	1072.3	1058.1
52.5°	977.2	993.1	996.7	994.9	979.0
55°	896.8	912.2	914.6	912.8	896.8
57.5°	819.4	829.5	831.8	828.3	808.2
60°	729.0	743.2	747.4	743.2	724.3
62.5°	641.6	657.0	660.5	654.6	634.5
65°	553.0	568.3	572.5	567.8	545.9
67.5°	469.1	480.3	483.9	478.5	458.5
70°	382.8	397.0	396.4	389.3	371.6
72.5°	297.8	317.3	313.7	309.6	290.1
75°	229.8	238.7	236.3	234.0	218.0
77.5°	164.2	174.9	169.0	169.6	156.0
80°	110.5	120.5	114.6	112.3	105.2
82.5°	70.3	74.4	73.3	72.1	65.6
85°	36.6	39.0	37.8	36.6	34.3
87.5°	14.2	15.4	14.2	14.2	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)