

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: P413097

Luminaire Tested: **22PD-50-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413097
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-L935
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

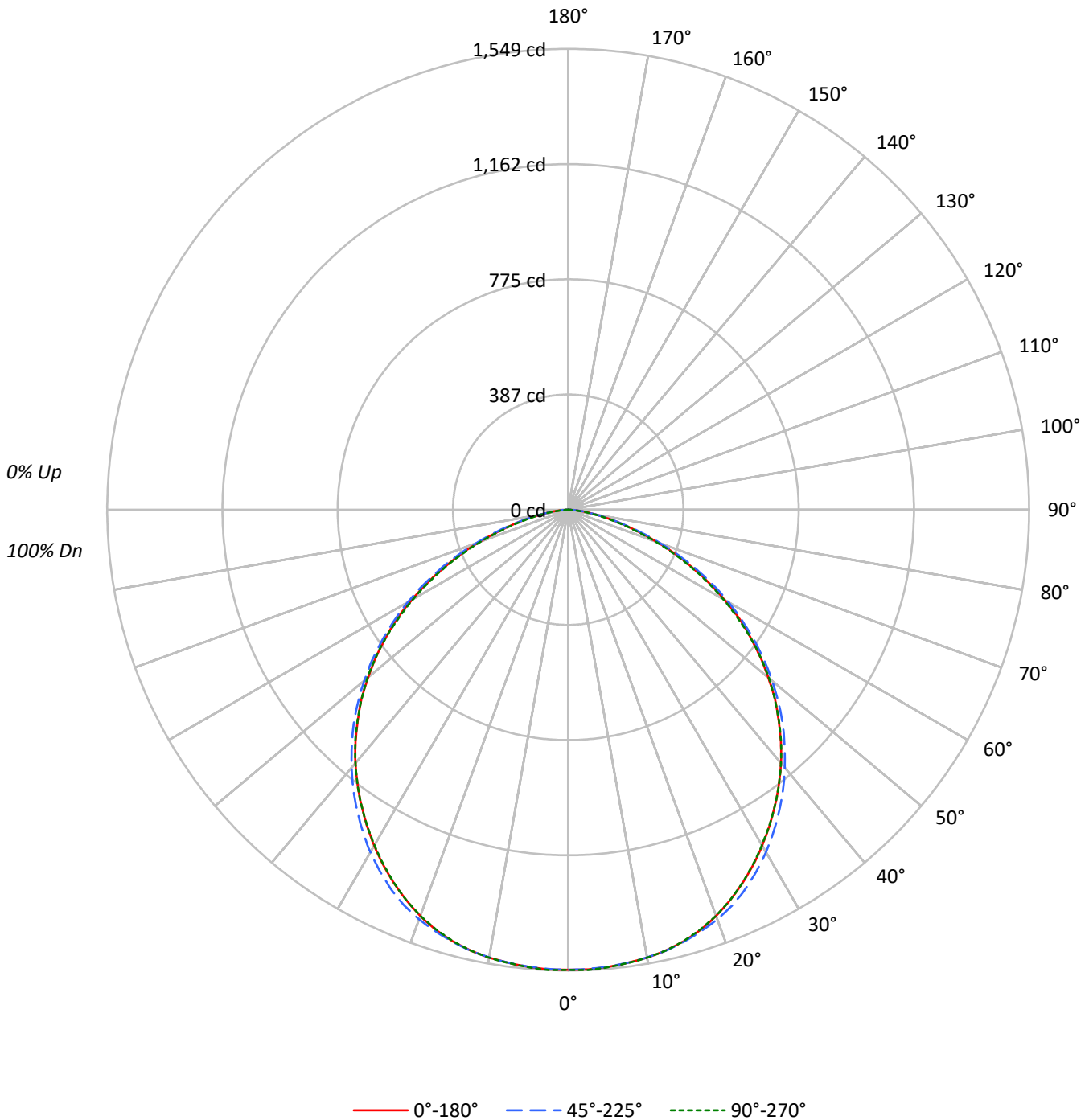
Lumens per Lamp: N/A
Luminaire Lumens: 4155.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P413097

CATALOG NUMBER: 22PD-50-PC3-L935

Luminous Intensity Polar Plot





TEST NUMBER: P413097

CATALOG NUMBER: 22PD-50-PC3-L935

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°	4162	4162	4162
5°	4167	4165	4170
10°	4178	4176	4178
15°	4183	4188	4181
20°	4161	4195	4159
25°	4113	4180	4110
30°	4052	4132	4046
35°	3982	4061	3982
40°	3907	3976	3907
45°	3804	3879	3810
50°	3674	3746	3689
55°	3504	3573	3504
60°	3267	3349	3246
65°	2932	3035	2895
70°	2508	2597	2434
75°	1990	2046	1887
80°	1426	1478	1358
85°	942	973	880



TEST NUMBER: P413097

CATALOG NUMBER: 22PD-50-PC3-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.5
10°-20°	423.9	10.2
20°-30°	643.1	15.5
30°-40°	768.0	18.5
40°-50°	781.0	18.8
50°-60°	675.6	16.3
60°-70°	464.9	11.2
70°-80°	211.0	5.1
80°-90°	40.8	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°	1213.7	29.2
0°-40°	1981.7	47.7
0°-60°	3438.3	82.8
0°-90°	4155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1543	1541	1542	1542	1544	147
15°	1501	1502	1503	1501	1501	423
25°	1385	1398	1408	1395	1384	638
35°	1212	1234	1236	1232	1212	758
45°	1000	1018	1019	1018	1001	771
55°	747	760	762	760	747	667
65°	460	473	477	473	455	457
75°	191	199	197	195	182	206
85°	30	32	32	30	28	40
90°	0	0	0	0	0	



TEST NUMBER: P413097

CATALOG NUMBER: 22PD-50-PC3-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.7	1546.7	1546.7	1546.7	1546.7
2.5°	1546.7	1544.7	1545.2	1545.7	1548.6
5°	1542.7	1541.2	1541.7	1541.7	1543.7
7.5°	1536.3	1535.8	1535.8	1535.3	1536.8
10°	1528.9	1528.0	1528.4	1528.0	1528.9
12.5°	1517.6	1517.6	1518.1	1516.6	1517.6
15°	1501.4	1502.4	1503.4	1500.9	1500.9
17.5°	1480.7	1483.2	1485.7	1481.2	1478.8
20°	1453.2	1459.1	1465.0	1458.1	1452.2
22.5°	1421.2	1431.0	1439.9	1429.1	1421.2
25°	1385.3	1397.6	1407.9	1395.1	1384.3
27.5°	1346.4	1360.2	1370.0	1359.2	1344.5
30°	1304.1	1320.9	1329.7	1319.4	1302.2
32.5°	1258.9	1278.5	1284.0	1277.6	1257.9
35°	1212.1	1233.8	1236.2	1231.8	1212.1
37.5°	1163.4	1184.1	1186.1	1183.6	1163.4
40°	1112.3	1131.5	1131.9	1131.9	1112.3
42.5°	1057.7	1076.4	1076.4	1075.9	1059.1
45°	999.6	1017.8	1019.3	1018.3	1001.1
47.5°	942.1	955.8	958.3	956.3	941.1
50°	877.6	891.9	894.8	892.9	881.1
52.5°	813.7	826.9	829.9	828.4	815.1
55°	746.8	759.6	761.5	760.0	746.8
57.5°	682.3	690.7	692.6	689.7	673.0
60°	607.1	618.9	622.3	618.9	603.1
62.5°	534.2	547.0	550.0	545.1	528.3
65°	460.5	473.2	476.7	472.8	454.6
67.5°	390.6	399.9	402.9	398.5	381.7
70°	318.8	330.6	330.1	324.2	309.4
72.5°	247.9	264.2	261.2	257.8	241.5
75°	191.4	198.7	196.8	194.8	181.5
77.5°	136.8	145.6	140.7	141.2	129.9
80°	92.0	100.4	95.4	93.5	87.6
82.5°	58.5	62.0	61.0	60.0	54.6
85°	30.5	32.5	31.5	30.5	28.5
87.5°	11.8	12.8	11.8	11.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)