

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: P412749

Luminaire Tested: **22PD-50-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412749
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-L830
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

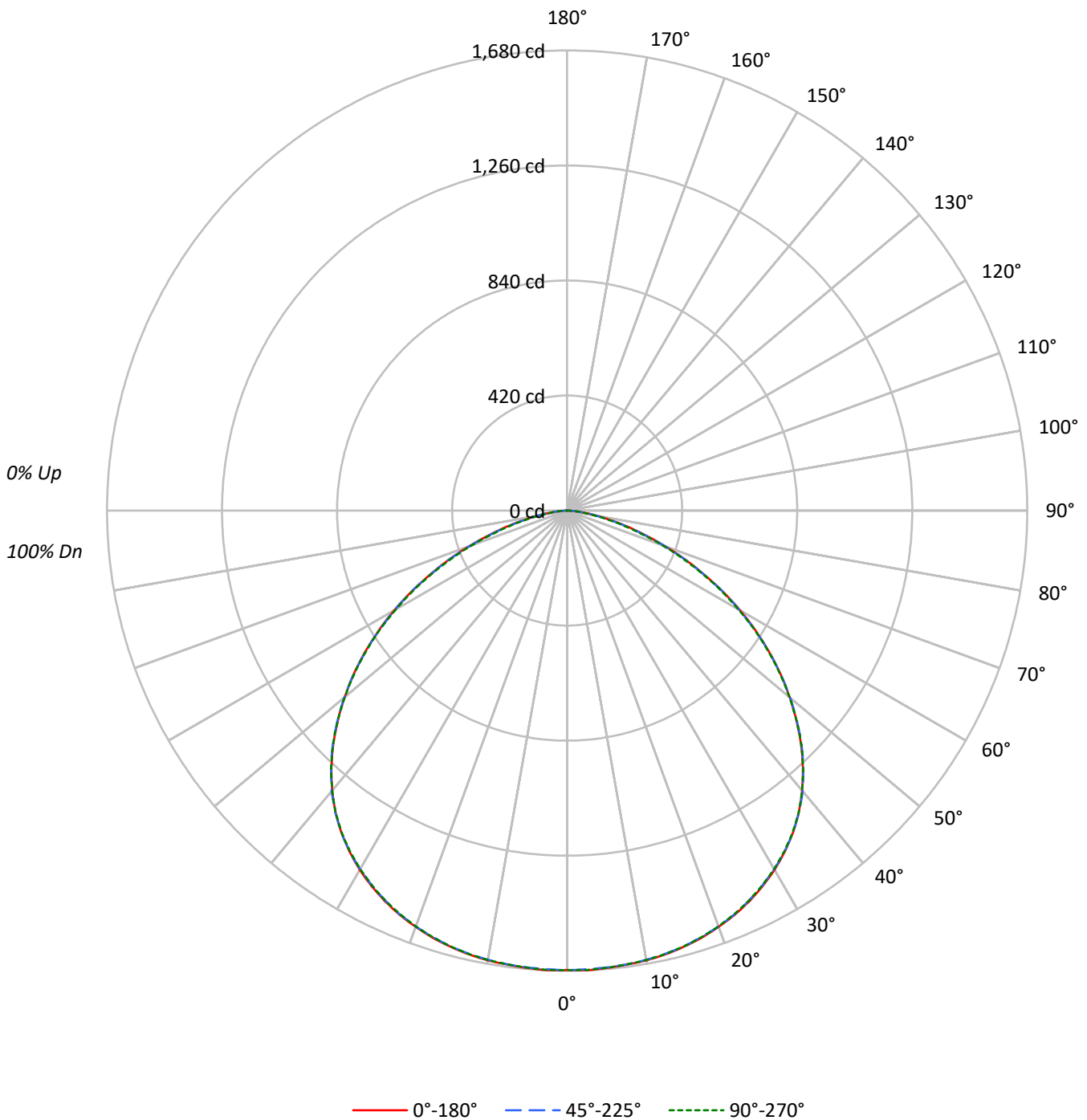
Lumens per Lamp: N/A
Luminaire Lumens: 4813.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (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: P412749

CATALOG NUMBER: 22PD-50-PP3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P412749

CATALOG NUMBER: 22PD-50-PP3-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	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°	4514	4514	4514
5°	4528	4522	4525
10°	4556	4550	4553
15°	4592	4588	4588
20°	4632	4627	4626
25°	4673	4665	4665
30°	4706	4698	4696
35°	4720	4720	4714
40°	4689	4699	4689
45°	4596	4609	4602
50°	4441	4448	4436
55°	4228	4218	4210
60°	3925	3916	3886
65°	3506	3502	3463
70°	2997	2979	2913
75°	2387	2318	2248
80°	1702	1666	1579
85°	1105	1105	1071



TEST NUMBER: P412749

CATALOG NUMBER: 22PD-50-PP3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.3
10°-20°	465.3	9.7
20°-30°	724.6	15.1
30°-40°	896.8	18.6
40°-50°	929.9	19.3
50°-60°	801.5	16.7
60°-70°	544.9	11.3
70°-80°	243.8	5.1
80°-90°	46.4	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°	1349.5	28.0
0°-40°	2246.3	46.7
0°-60°	3977.8	82.6
0°-90°	4813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1676	1673	1674	1674	1675	160
15°	1648	1646	1647	1646	1647	466
25°	1574	1572	1571	1571	1571	726
35°	1437	1435	1437	1434	1435	897
45°	1208	1206	1211	1208	1209	929
55°	901	898	899	897	897	804
65°	551	555	550	548	544	547
75°	230	230	223	222	216	247
85°	36	37	36	35	35	47
90°	0	0	0	0	0	



TEST NUMBER: P412749

CATALOG NUMBER: 22PD-50-PP3-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.5	1677.5	1677.5	1677.5	1677.5
2.5°	1679.8	1676.4	1676.4	1677.0	1678.7
5°	1676.4	1673.1	1674.2	1673.6	1675.3
7.5°	1671.9	1669.1	1670.8	1669.7	1670.8
10°	1667.5	1664.7	1665.2	1664.7	1666.3
12.5°	1659.6	1656.3	1657.4	1657.4	1657.9
15°	1648.4	1645.6	1646.7	1645.6	1646.7
17.5°	1635.0	1631.6	1632.2	1631.6	1632.7
20°	1617.6	1615.4	1615.9	1614.8	1615.4
22.5°	1598.0	1595.2	1595.8	1594.6	1594.6
25°	1573.9	1571.7	1571.1	1570.6	1571.1
27.5°	1545.9	1543.1	1543.1	1542.6	1542.6
30°	1514.6	1511.8	1511.8	1511.2	1511.2
32.5°	1477.6	1476.5	1477.0	1475.9	1475.3
35°	1436.7	1435.0	1436.7	1434.5	1435.0
37.5°	1389.1	1386.8	1390.2	1388.0	1388.5
40°	1334.8	1333.6	1337.6	1335.9	1334.8
42.5°	1274.3	1274.3	1275.9	1276.5	1275.4
45°	1207.6	1206.5	1211.0	1208.2	1209.3
47.5°	1135.9	1134.2	1137.6	1137.0	1136.5
50°	1060.9	1059.7	1062.5	1059.7	1059.7
52.5°	983.0	982.4	983.0	980.2	979.6
55°	901.2	897.9	899.0	897.3	897.3
57.5°	816.1	812.2	812.7	812.2	812.7
60°	729.3	728.1	727.6	724.8	722.0
62.5°	640.2	641.3	640.8	636.9	634.1
65°	550.6	555.1	550.0	548.4	543.9
67.5°	466.0	467.7	464.3	460.4	455.4
70°	380.9	384.2	378.6	374.7	370.2
72.5°	299.7	301.9	296.9	294.6	289.0
75°	229.6	230.2	222.9	221.8	216.2
77.5°	163.6	165.8	160.2	160.2	154.6
80°	109.8	113.7	107.5	105.9	101.9
82.5°	68.9	69.5	67.8	66.1	64.4
85°	35.8	37.0	35.8	34.7	34.7
87.5°	13.4	14.0	13.4	12.9	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)