

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: P412743

Luminaire Tested: **22PD-45-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412743
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-45-PP3-L850
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

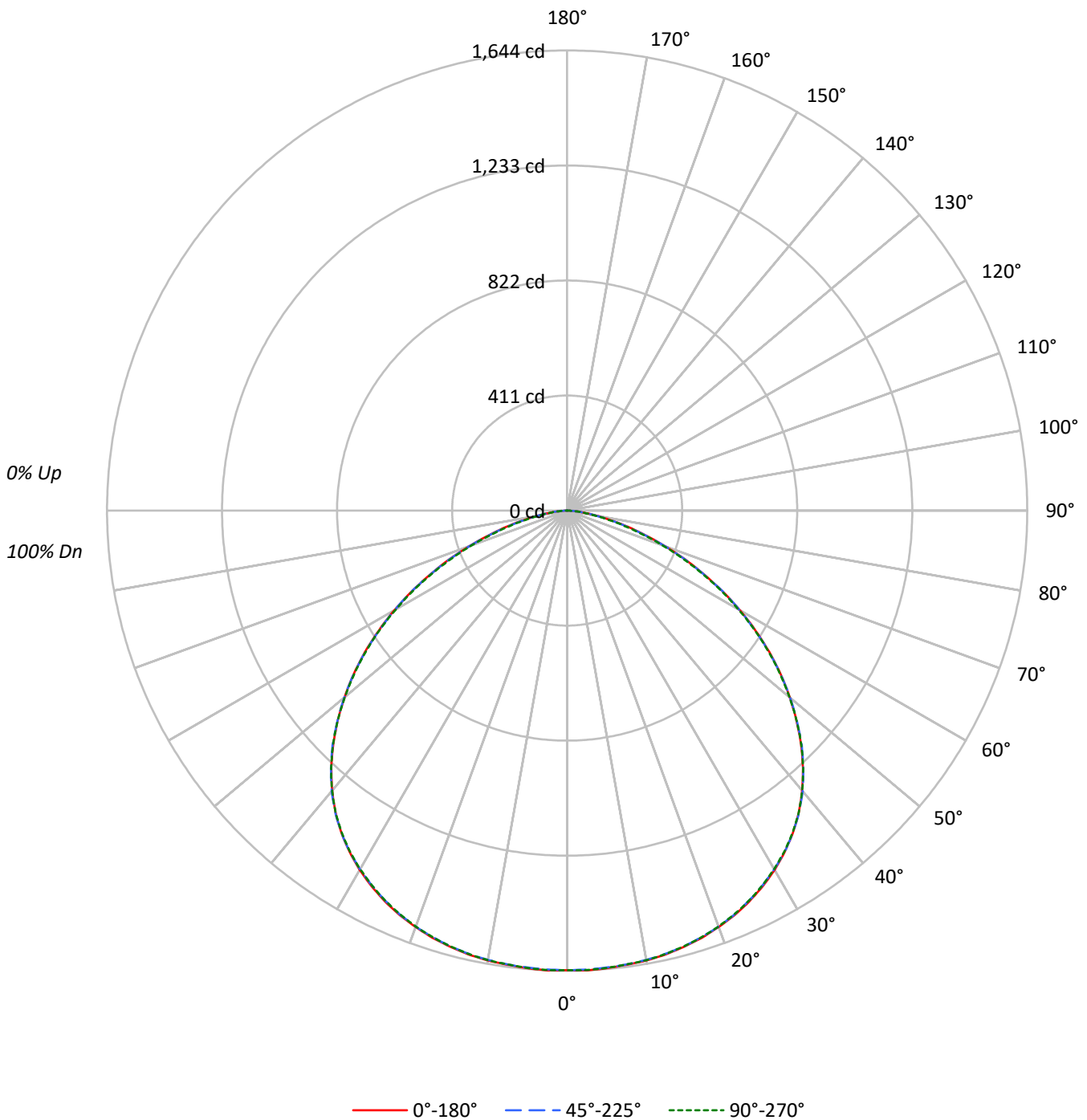
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4711.0 lumens
Efficiency: N/A
Efficacy: 123.3 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): 38.2
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: P412743
CATALOG NUMBER: 22PD-45-PP3-L850

Luminous Intensity Polar Plot





TEST NUMBER: P412743

CATALOG NUMBER: 22PD-45-PP3-L850

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	51	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°	4419	4419	4419
5°	4432	4427	4430
10°	4460	4454	4457
15°	4495	4490	4490
20°	4534	4529	4528
25°	4574	4566	4566
30°	4607	4598	4596
35°	4619	4619	4614
40°	4590	4599	4590
45°	4498	4511	4505
50°	4347	4354	4343
55°	4138	4128	4121
60°	3842	3833	3803
65°	3431	3428	3389
70°	2933	2916	2851
75°	2337	2269	2200
80°	1666	1632	1547
85°	1084	1084	1050



TEST NUMBER: P412743

CATALOG NUMBER: 22PD-45-PP3-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.3
10°-20°	455.5	9.7
20°-30°	709.2	15.1
30°-40°	877.8	18.6
40°-50°	910.2	19.3
50°-60°	784.6	16.7
60°-70°	533.4	11.3
70°-80°	238.7	5.1
80°-90°	45.5	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°	1320.9	28.0
0°-40°	2198.7	46.7
0°-60°	3893.5	82.6
0°-90°	4711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1641	1638	1639	1638	1640	156
15°	1614	1611	1612	1611	1612	456
25°	1541	1538	1538	1537	1538	710
35°	1406	1405	1406	1404	1405	878
45°	1182	1181	1185	1183	1184	910
55°	882	879	880	878	878	787
65°	539	543	538	537	532	535
75°	225	225	218	217	212	242
85°	35	36	35	34	34	46
90°	0	0	0	0	0	



TEST NUMBER: P412743

CATALOG NUMBER: 22PD-45-PP3-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.0	1642.0	1642.0	1642.0	1642.0
2.5°	1644.2	1640.9	1640.9	1641.4	1643.1
5°	1640.9	1637.6	1638.7	1638.2	1639.8
7.5°	1636.5	1633.8	1635.4	1634.3	1635.4
10°	1632.1	1629.4	1629.9	1629.4	1631.0
12.5°	1624.4	1621.2	1622.3	1622.3	1622.8
15°	1613.5	1610.7	1611.8	1610.7	1611.8
17.5°	1600.3	1597.0	1597.6	1597.0	1598.1
20°	1583.3	1581.1	1581.7	1580.6	1581.1
22.5°	1564.1	1561.4	1561.9	1560.9	1560.9
25°	1540.6	1538.4	1537.8	1537.3	1537.8
27.5°	1513.2	1510.4	1510.4	1509.9	1509.9
30°	1482.5	1479.7	1479.7	1479.2	1479.2
32.5°	1446.3	1445.2	1445.7	1444.6	1444.1
35°	1406.2	1404.6	1406.2	1404.1	1404.6
37.5°	1359.6	1357.5	1360.7	1358.6	1359.1
40°	1306.5	1305.4	1309.2	1307.6	1306.5
42.5°	1247.3	1247.3	1248.9	1249.5	1248.4
45°	1182.0	1180.9	1185.3	1182.6	1183.7
47.5°	1111.8	1110.2	1113.5	1112.9	1112.4
50°	1038.4	1037.3	1040.0	1037.3	1037.3
52.5°	962.2	961.6	962.2	959.4	958.9
55°	882.1	878.8	879.9	878.3	878.3
57.5°	798.8	795.0	795.5	795.0	795.5
60°	713.8	712.7	712.2	709.4	706.7
62.5°	626.6	627.7	627.2	623.4	620.6
65°	538.9	543.3	538.4	536.7	532.3
67.5°	456.1	457.8	454.5	450.7	445.7
70°	372.8	376.1	370.6	366.8	362.4
72.5°	293.3	295.5	290.6	288.4	282.9
75°	224.8	225.3	218.2	217.1	211.6
77.5°	160.1	162.3	156.8	156.8	151.3
80°	107.5	111.3	105.3	103.6	99.8
82.5°	67.4	68.0	66.3	64.7	63.0
85°	35.1	36.2	35.1	34.0	34.0
87.5°	13.2	13.7	13.2	12.6	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)