

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: P412421

Luminaire Tested: **22PD-55-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-55-PB1-L930
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

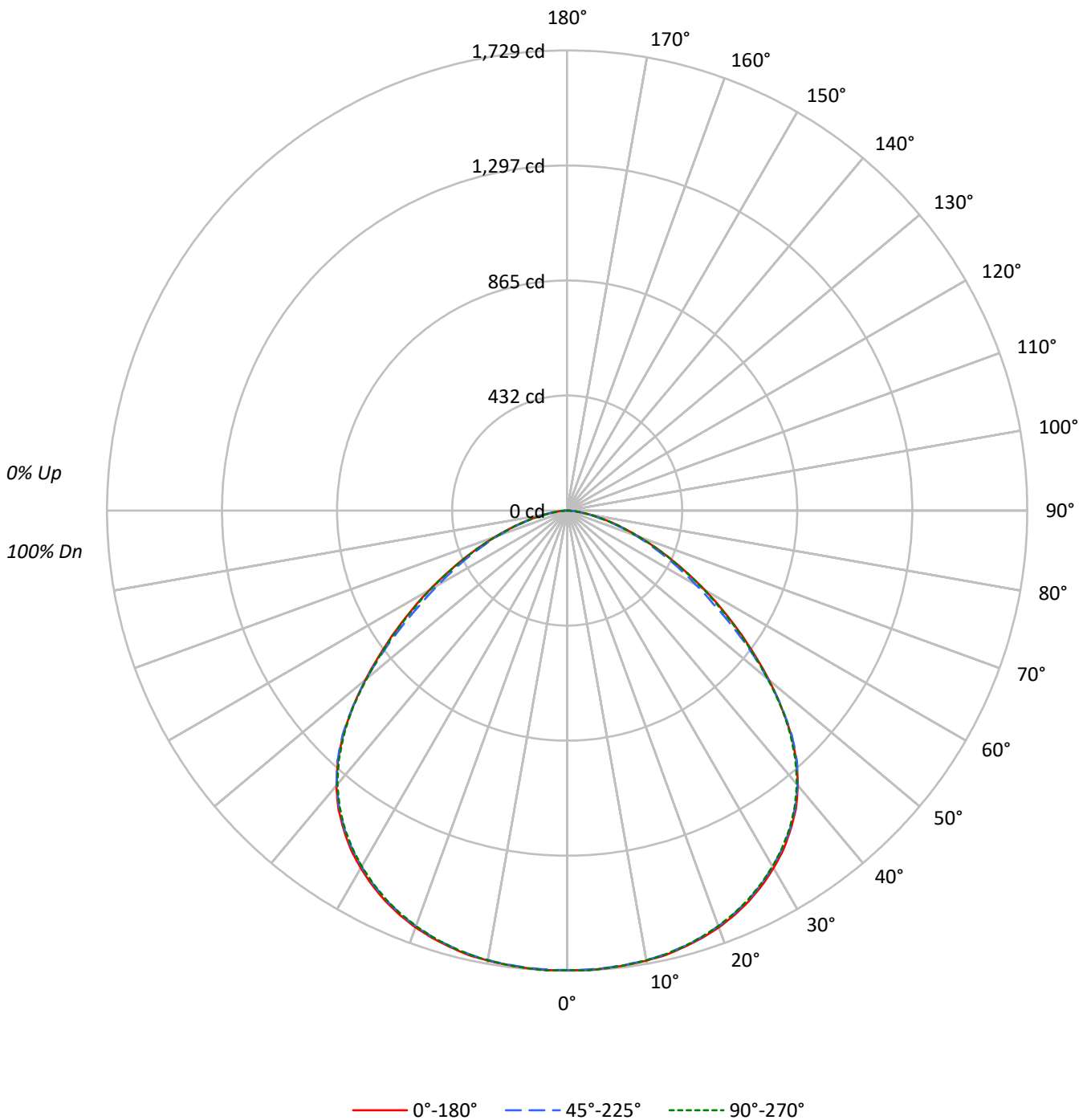
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4533.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.2
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

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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67		76	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39		51	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4646	4646	4646
5°	4661	4657	4663
10°	4692	4686	4689
15°	4730	4722	4722
20°	4773	4759	4756
25°	4803	4789	4784
30°	4819	4799	4796
35°	4809	4795	4786
40°	4737	4732	4717
45°	4529	4543	4509
50°	4146	4124	4119
55°	3685	3554	3659
60°	3212	3017	3193
65°	2723	2577	2709
70°	2252	2159	2231
75°	1821	1704	1749
80°	1316	1274	1266
85°	858	858	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.6
10°-20°	479.1	10.6
20°-30°	743.5	16.4
30°-40°	911.7	20.1
40°-50°	911.4	20.1
50°-60°	690.4	15.2
60°-70°	414.1	9.1
70°-80°	182.3	4.0
80°-90°	36.2	0.8
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°	1386.9	30.6
0°-40°	2298.7	50.7
0°-60°	3900.5	86.0
0°-90°	4533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1726	1723	1724	1723	1726	164
15°	1698	1696	1695	1694	1695	480
25°	1618	1614	1613	1610	1611	746
35°	1464	1463	1460	1459	1457	914
45°	1190	1192	1194	1191	1185	911
55°	785	768	758	768	780	704
65°	428	413	405	412	426	428
75°	175	171	164	167	168	187
85°	28	29	28	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.6	1726.6	1726.6	1726.6	1726.6
2.5°	1728.2	1725.5	1726.1	1726.1	1729.3
5°	1725.5	1723.4	1723.9	1723.4	1726.1
7.5°	1721.8	1719.7	1720.2	1719.7	1721.3
10°	1717.0	1714.9	1714.9	1713.8	1715.9
12.5°	1710.6	1707.9	1706.9	1706.3	1707.9
15°	1697.8	1696.2	1695.1	1694.0	1695.1
17.5°	1683.9	1681.2	1680.2	1678.0	1680.2
20°	1666.8	1663.1	1662.0	1660.4	1660.9
22.5°	1644.4	1641.2	1639.6	1636.9	1638.0
25°	1617.7	1614.5	1612.9	1610.2	1611.3
27.5°	1586.7	1584.6	1580.9	1578.7	1579.3
30°	1551.0	1548.8	1544.6	1543.5	1543.5
32.5°	1511.5	1508.8	1505.0	1504.0	1503.4
35°	1463.9	1463.4	1459.7	1458.6	1457.0
37.5°	1412.2	1411.1	1406.8	1405.7	1404.1
40°	1348.6	1347.5	1347.0	1344.9	1342.7
42.5°	1274.9	1276.5	1277.6	1273.3	1269.1
45°	1190.1	1191.7	1193.8	1190.6	1184.7
47.5°	1090.7	1097.2	1093.9	1096.1	1090.2
50°	990.4	990.4	985.0	987.2	984.0
52.5°	885.2	876.7	870.2	874.5	878.8
55°	785.4	768.3	757.6	767.7	780.0
57.5°	689.8	669.5	649.7	665.8	680.7
60°	596.9	573.4	560.6	572.3	593.2
62.5°	508.8	491.7	478.9	488.0	505.6
65°	427.6	412.7	404.7	411.6	425.5
67.5°	353.4	343.3	335.3	341.2	351.8
70°	286.2	283.5	274.4	277.1	283.5
72.5°	224.8	224.2	216.2	218.4	222.1
75°	175.1	171.4	163.9	166.6	168.2
77.5°	123.9	125.5	118.5	120.1	120.1
80°	84.9	87.6	82.2	81.2	81.7
82.5°	53.9	53.9	53.4	52.9	51.3
85°	27.8	28.8	27.8	26.7	26.7
87.5°	10.7	10.7	10.7	10.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)