

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: P412420

Luminaire Tested: **22PD-55-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412420
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-L927
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

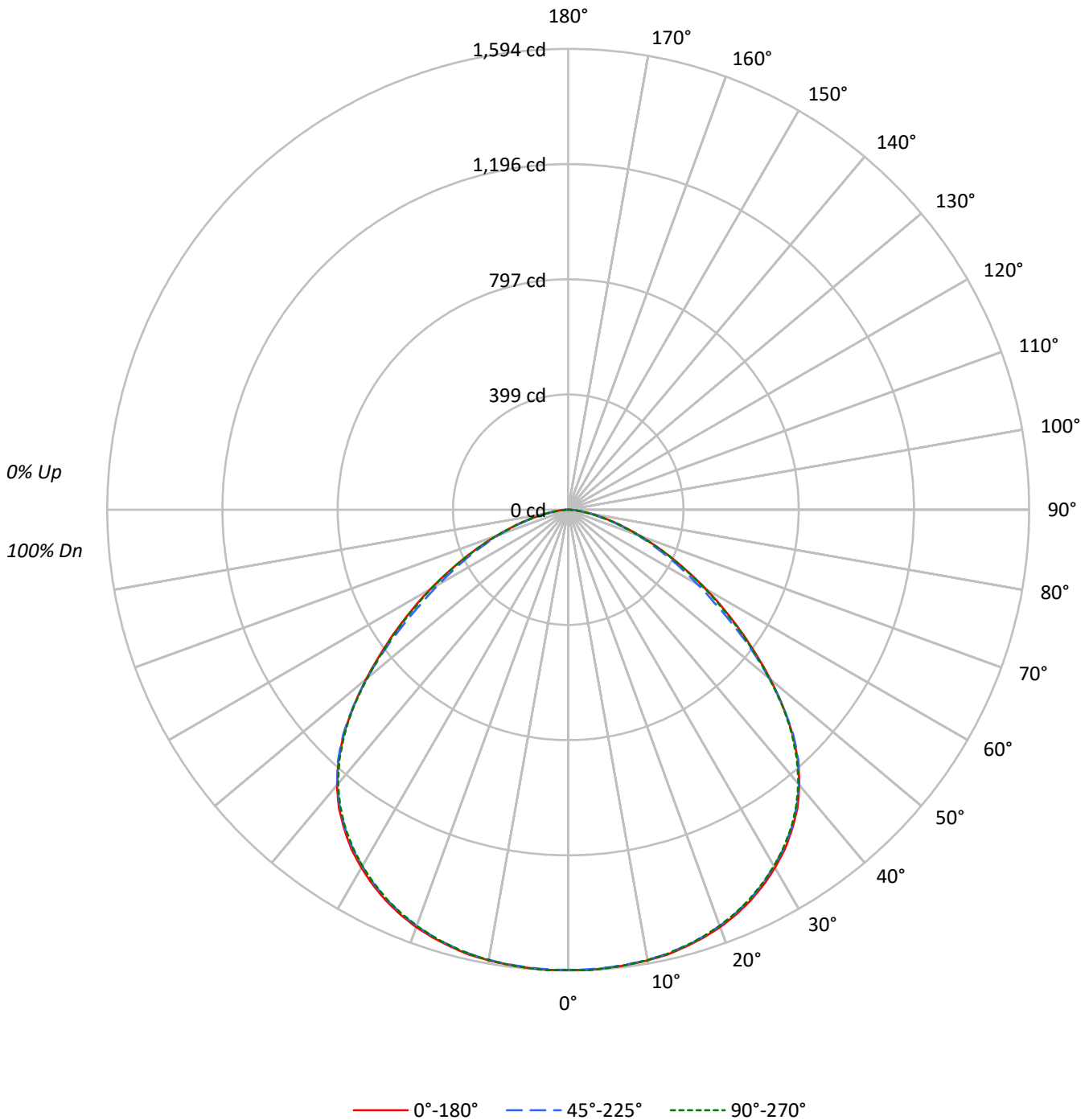
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 90.5 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°	4283	4283	4283
5°	4297	4293	4299
10°	4325	4320	4323
15°	4361	4354	4354
20°	4401	4388	4385
25°	4428	4415	4411
30°	4443	4424	4422
35°	4434	4421	4413
40°	4367	4362	4349
45°	4175	4188	4156
50°	3822	3802	3798
55°	3397	3277	3374
60°	2962	2781	2943
65°	2511	2376	2498
70°	2076	1991	2057
75°	1678	1571	1612
80°	1213	1175	1167
85°	790	790	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.6
10°-20°	441.7	10.6
20°-30°	685.4	16.4
30°-40°	840.5	20.1
40°-50°	840.2	20.1
50°-60°	636.5	15.2
60°-70°	381.7	9.1
70°-80°	168.1	4.0
80°-90°	33.3	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°	1278.6	30.6
0°-40°	2119.2	50.7
0°-60°	3595.9	86.0
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1591	1589	1589	1589	1591	152
15°	1565	1564	1563	1562	1563	443
25°	1491	1488	1487	1484	1486	687
35°	1350	1349	1346	1345	1343	843
45°	1097	1099	1101	1098	1092	840
55°	724	708	698	708	719	649
65°	394	380	373	380	392	394
75°	161	158	151	154	155	172
85°	26	27	26	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591.8	1591.8	1591.8	1591.8	1591.8
2.5°	1593.3	1590.8	1591.3	1591.3	1594.2
5°	1590.8	1588.8	1589.3	1588.8	1591.3
7.5°	1587.3	1585.4	1585.9	1585.4	1586.9
10°	1582.9	1580.9	1580.9	1580.0	1581.9
12.5°	1577.0	1574.5	1573.6	1573.1	1574.5
15°	1565.2	1563.7	1562.7	1561.8	1562.7
17.5°	1552.4	1549.9	1549.0	1547.0	1549.0
20°	1536.7	1533.2	1532.2	1530.7	1531.2
22.5°	1516.0	1513.0	1511.5	1509.1	1510.1
25°	1491.4	1488.4	1486.9	1484.5	1485.5
27.5°	1462.8	1460.9	1457.4	1455.4	1455.9
30°	1429.8	1427.9	1423.9	1423.0	1423.0
32.5°	1393.4	1391.0	1387.5	1386.5	1386.0
35°	1349.6	1349.1	1345.7	1344.7	1343.2
37.5°	1301.9	1300.9	1296.9	1296.0	1294.5
40°	1243.3	1242.3	1241.8	1239.9	1237.9
42.5°	1175.4	1176.9	1177.8	1173.9	1170.0
45°	1097.1	1098.6	1100.6	1097.6	1092.2
47.5°	1005.6	1011.5	1008.5	1010.5	1005.1
50°	913.0	913.0	908.1	910.1	907.1
52.5°	816.1	808.2	802.3	806.2	810.2
55°	724.0	708.3	698.4	707.8	719.1
57.5°	635.9	617.2	599.0	613.8	627.6
60°	550.3	528.6	516.8	527.6	546.8
62.5°	469.1	453.3	441.5	449.9	466.1
65°	394.3	380.5	373.1	379.5	392.3
67.5°	325.8	316.5	309.1	314.5	324.4
70°	263.8	261.4	253.0	255.5	261.4
72.5°	207.2	206.7	199.3	201.3	204.8
75°	161.4	158.0	151.1	153.6	155.0
77.5°	114.2	115.7	109.3	110.7	110.7
80°	78.3	80.7	75.8	74.8	75.3
82.5°	49.7	49.7	49.2	48.7	47.3
85°	25.6	26.6	25.6	24.6	24.6
87.5°	9.8	9.8	9.8	9.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)