

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: P412413

Luminaire Tested: **22PD-50-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412413
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-50-PB1-L935
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

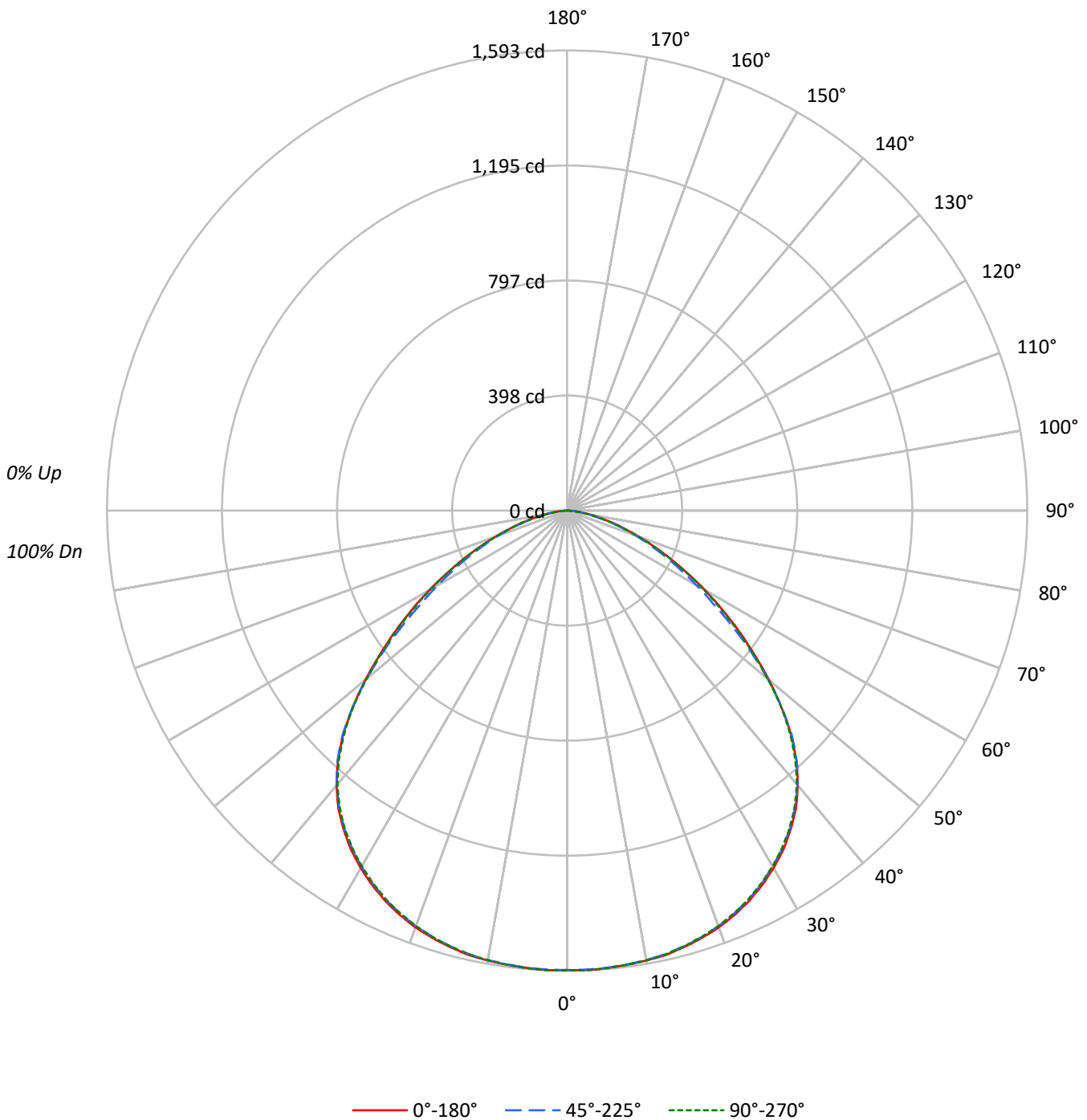
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 98.3 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): 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

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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°	4280	4280	4280
5°	4294	4290	4295
10°	4322	4317	4320
15°	4357	4350	4350
20°	4397	4385	4382
25°	4425	4412	4407
30°	4440	4421	4418
35°	4430	4417	4410
40°	4364	4359	4345
45°	4172	4185	4153
50°	3820	3799	3795
55°	3394	3274	3371
60°	2960	2779	2941
65°	2509	2374	2496
70°	2074	1989	2055
75°	1677	1570	1611
80°	1212	1173	1167
85°	790	790	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	3.6
10°-20°	441.4	10.6
20°-30°	684.9	16.4
30°-40°	839.9	20.1
40°-50°	839.6	20.1
50°-60°	636.0	15.2
60°-70°	381.4	9.1
70°-80°	168.0	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°	1277.7	30.6
0°-40°	2117.6	50.7
0°-60°	3593.3	86.0
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1590	1588	1588	1588	1590	151
15°	1564	1563	1562	1561	1562	442
25°	1490	1487	1486	1483	1484	687
35°	1349	1348	1345	1344	1342	842
45°	1096	1098	1100	1097	1091	839
55°	724	708	698	707	719	649
65°	394	380	373	379	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°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1592.1	1589.7	1590.1	1590.1	1593.1
5°	1589.7	1587.7	1588.2	1587.7	1590.1
7.5°	1586.2	1584.2	1584.7	1584.2	1585.7
10°	1581.8	1579.8	1579.8	1578.8	1580.8
12.5°	1575.9	1573.4	1572.4	1571.9	1573.4
15°	1564.1	1562.6	1561.6	1560.6	1561.6
17.5°	1551.3	1548.8	1547.8	1545.9	1547.8
20°	1535.5	1532.1	1531.1	1529.6	1530.1
22.5°	1514.9	1511.9	1510.5	1508.0	1509.0
25°	1490.3	1487.3	1485.9	1483.4	1484.4
27.5°	1461.8	1459.8	1456.4	1454.4	1454.9
30°	1428.8	1426.8	1422.9	1421.9	1421.9
32.5°	1392.4	1390.0	1386.5	1385.5	1385.0
35°	1348.6	1348.2	1344.7	1343.7	1342.3
37.5°	1300.9	1300.0	1296.0	1295.0	1293.6
40°	1242.4	1241.4	1240.9	1239.0	1237.0
42.5°	1174.5	1176.0	1177.0	1173.1	1169.1
45°	1096.3	1097.8	1099.8	1096.8	1091.4
47.5°	1004.8	1010.7	1007.8	1009.8	1004.4
50°	912.4	912.4	907.5	909.4	906.5
52.5°	815.5	807.6	801.7	805.6	809.6
55°	723.5	707.8	697.9	707.3	718.6
57.5°	635.5	616.8	598.6	613.3	627.1
60°	549.9	528.2	516.4	527.3	546.4
62.5°	468.7	453.0	441.2	449.5	465.8
65°	394.0	380.2	372.8	379.2	392.0
67.5°	325.6	316.3	308.9	314.3	324.1
70°	263.6	261.2	252.8	255.3	261.2
72.5°	207.1	206.6	199.2	201.2	204.6
75°	161.3	157.9	151.0	153.5	154.9
77.5°	114.1	115.6	109.2	110.7	110.7
80°	78.2	80.7	75.7	74.8	75.3
82.5°	49.7	49.7	49.2	48.7	47.2
85°	25.6	26.6	25.6	24.6	24.6
87.5°	9.8	9.8	9.8	9.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)