

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: P412414

Luminaire Tested: **22PD-50-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412414
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-L940
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

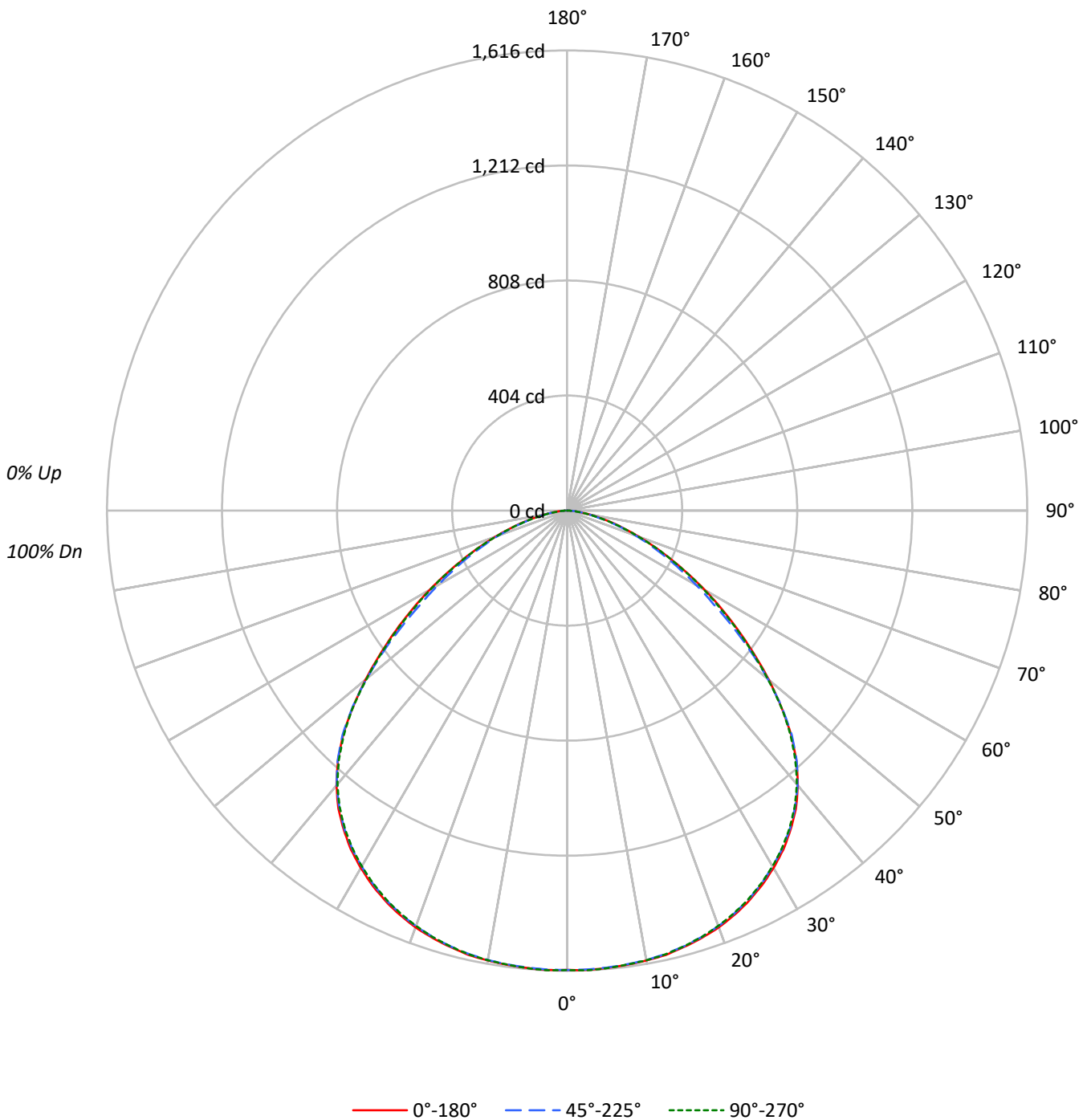
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4236.0 lumens
Efficiency: N/A
Efficacy: 99.7 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 (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°	4342	4342	4342
5°	4356	4352	4357
10°	4384	4379	4382
15°	4420	4413	4413
20°	4460	4448	4445
25°	4488	4475	4471
30°	4503	4485	4482
35°	4494	4481	4473
40°	4427	4422	4408
45°	4232	4246	4213
50°	3875	3854	3849
55°	3443	3322	3420
60°	3002	2820	2983
65°	2544	2408	2532
70°	2104	2017	2084
75°	1701	1593	1634
80°	1229	1190	1182
85°	800	800	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.6
10°-20°	447.8	10.6
20°-30°	694.8	16.4
30°-40°	852.0	20.1
40°-50°	851.7	20.1
50°-60°	645.1	15.2
60°-70°	386.9	9.1
70°-80°	170.4	4.0
80°-90°	33.8	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°	1296.1	30.6
0°-40°	2148.1	50.7
0°-60°	3644.9	86.0
0°-90°	4236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1612	1610	1611	1610	1613	154
15°	1586	1585	1584	1583	1584	449
25°	1512	1509	1507	1505	1506	697
35°	1368	1368	1364	1363	1362	854
45°	1112	1114	1116	1113	1107	851
55°	734	718	708	717	729	658
65°	400	386	378	385	398	400
75°	164	160	153	156	157	175
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°	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1615.0	1612.5	1613.0	1613.0	1616.0
5°	1612.5	1610.5	1611.0	1610.5	1613.0
7.5°	1609.0	1607.0	1607.5	1607.0	1608.5
10°	1604.5	1602.5	1602.5	1601.5	1603.5
12.5°	1598.5	1596.0	1595.0	1594.5	1596.0
15°	1586.5	1585.0	1584.1	1583.1	1584.1
17.5°	1573.6	1571.1	1570.1	1568.1	1570.1
20°	1557.6	1554.1	1553.1	1551.6	1552.1
22.5°	1536.7	1533.7	1532.2	1529.7	1530.7
25°	1511.7	1508.7	1507.2	1504.7	1505.7
27.5°	1482.8	1480.8	1477.3	1475.3	1475.8
30°	1449.3	1447.3	1443.4	1442.4	1442.4
32.5°	1412.4	1409.9	1406.4	1405.4	1404.9
35°	1368.0	1367.5	1364.0	1363.0	1361.5
37.5°	1319.6	1318.6	1314.6	1313.6	1312.1
40°	1260.3	1259.3	1258.8	1256.8	1254.8
42.5°	1191.4	1192.9	1193.9	1189.9	1185.9
45°	1112.1	1113.6	1115.6	1112.6	1107.1
47.5°	1019.3	1025.3	1022.3	1024.3	1018.8
50°	925.5	925.5	920.5	922.5	919.5
52.5°	827.2	819.2	813.2	817.2	821.2
55°	733.9	717.9	708.0	717.4	728.9
57.5°	644.6	625.6	607.2	622.1	636.1
60°	557.8	535.8	523.9	534.8	554.3
62.5°	475.5	459.5	447.5	456.0	472.5
65°	399.6	385.7	378.2	384.7	397.6
67.5°	330.3	320.8	313.3	318.8	328.8
70°	267.4	264.9	256.4	258.9	264.9
72.5°	210.0	209.5	202.1	204.1	207.5
75°	163.6	160.2	153.2	155.7	157.2
77.5°	115.7	117.2	110.8	112.3	112.3
80°	79.3	81.8	76.8	75.8	76.3
82.5°	50.4	50.4	49.9	49.4	47.9
85°	25.9	26.9	25.9	24.9	24.9
87.5°	10.0	10.0	10.0	9.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)