

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: P412511

Luminaire Tested: **24PD-40-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-40-PB1-L930
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

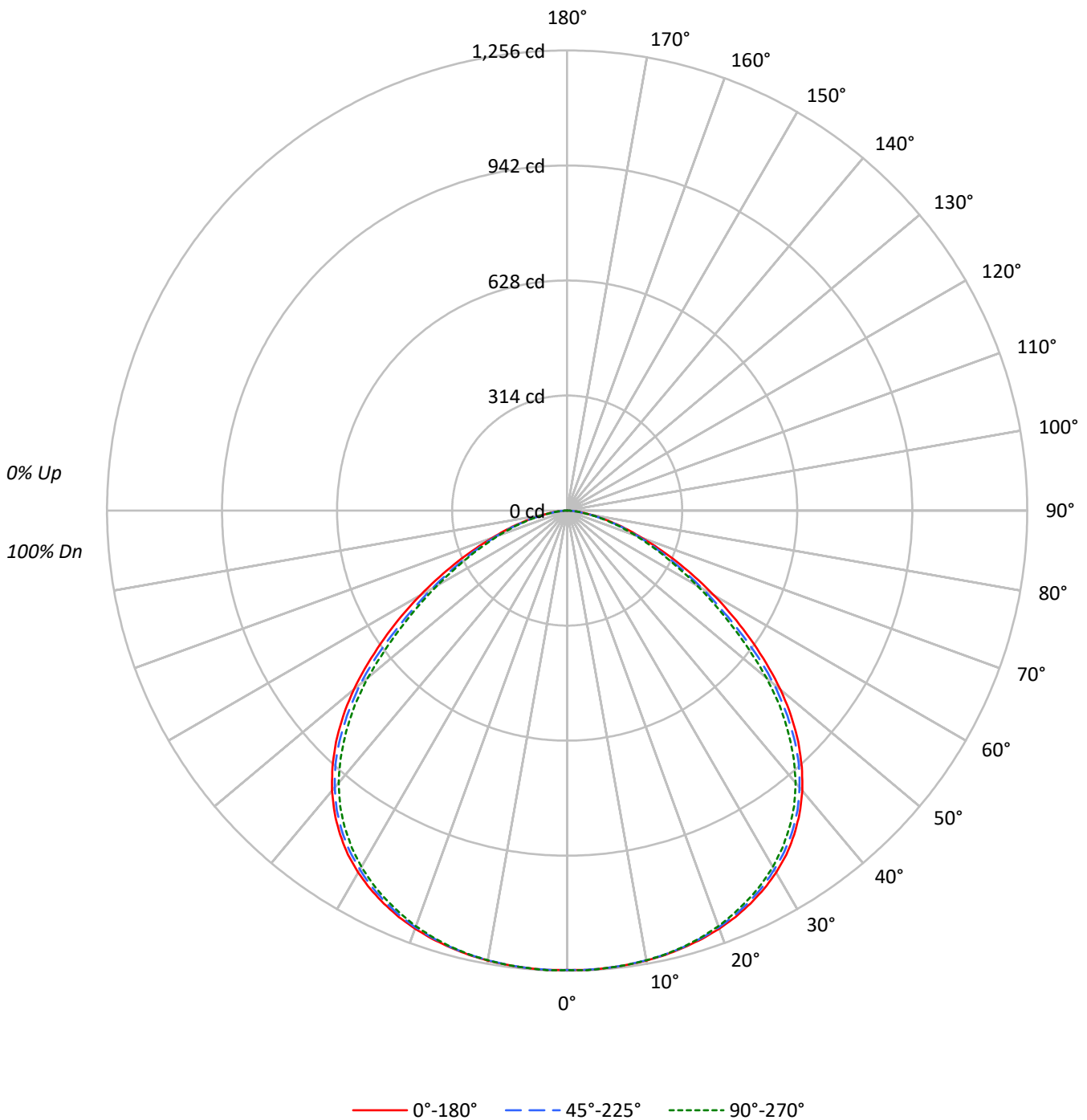
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1687	1687	1687
5°	1693	1693	1693
10°	1704	1702	1703
15°	1720	1717	1716
20°	1739	1733	1729
25°	1757	1748	1738
30°	1772	1758	1744
35°	1774	1759	1737
40°	1754	1733	1704
45°	1697	1666	1623
50°	1591	1542	1485
55°	1430	1345	1290
60°	1245	1146	1102
65°	1048	969	927
70°	854	811	778
75°	684	660	633
80°	525	484	471
85°	329	318	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.6
10°-20°	348.5	10.4
20°-30°	542.9	16.3
30°-40°	667.9	20.0
40°-50°	670.9	20.1
50°-60°	517.1	15.5
60°-70°	307.0	9.2
70°-80°	136.7	4.1
80°-90°	26.7	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°	1010.8	30.3
0°-40°	1678.7	50.3
0°-60°	2866.7	85.9
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1253	1254	1253	1252	1253	119
15°	1234	1234	1233	1231	1232	349
25°	1184	1183	1178	1172	1171	546
35°	1080	1079	1071	1062	1058	675
45°	892	890	876	861	853	685
55°	610	598	573	556	550	545
65°	329	315	304	293	291	329
75°	132	129	127	123	122	142
85°	21	20	21	20	21	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.1	1254.1	1254.1	1254.1	1254.1
2.5°	1254.8	1254.4	1254.4	1253.1	1255.7
5°	1253.4	1253.8	1253.4	1252.1	1253.4
7.5°	1250.8	1251.1	1250.4	1249.1	1250.4
10°	1247.4	1247.4	1246.1	1245.4	1246.4
12.5°	1241.8	1241.8	1240.5	1239.5	1240.5
15°	1234.5	1234.5	1232.8	1230.8	1231.8
17.5°	1225.5	1225.5	1222.8	1220.2	1220.8
20°	1214.5	1214.2	1210.5	1206.9	1207.2
22.5°	1200.6	1200.2	1195.6	1191.3	1189.9
25°	1183.6	1183.3	1177.6	1172.3	1171.0
27.5°	1164.0	1162.7	1156.4	1150.4	1149.1
30°	1140.7	1139.7	1131.4	1125.5	1122.8
32.5°	1113.8	1111.2	1103.5	1096.2	1092.5
35°	1080.3	1078.6	1070.9	1062.0	1057.6
37.5°	1042.4	1040.7	1032.4	1022.4	1017.4
40°	998.5	997.2	986.8	976.5	970.2
42.5°	948.0	947.0	936.0	921.7	915.1
45°	891.8	889.5	875.5	860.9	852.9
47.5°	829.3	825.3	808.4	794.4	785.8
50°	760.2	754.8	736.6	718.6	709.6
52.5°	685.4	676.1	657.1	636.5	627.9
55°	609.6	598.0	573.4	556.1	549.8
57.5°	535.5	518.5	495.3	483.0	476.6
60°	462.7	444.1	425.8	413.8	409.5
62.5°	393.2	377.6	362.0	350.0	347.3
65°	329.1	314.8	304.5	292.8	291.2
67.5°	269.2	262.6	253.3	243.3	242.0
70°	217.0	214.4	206.1	200.1	197.8
72.5°	173.2	170.5	164.5	160.2	159.5
75°	131.6	129.0	127.0	122.6	121.7
77.5°	93.7	94.1	92.4	90.1	90.7
80°	67.8	63.8	62.5	61.2	60.8
82.5°	41.5	39.2	38.2	37.9	38.6
85°	21.3	20.3	20.6	19.6	20.6
87.5°	7.3	7.3	7.6	7.3	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)