

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: P412515

Luminaire Tested: **24PD-45-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412515
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-45-PB1-L830
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

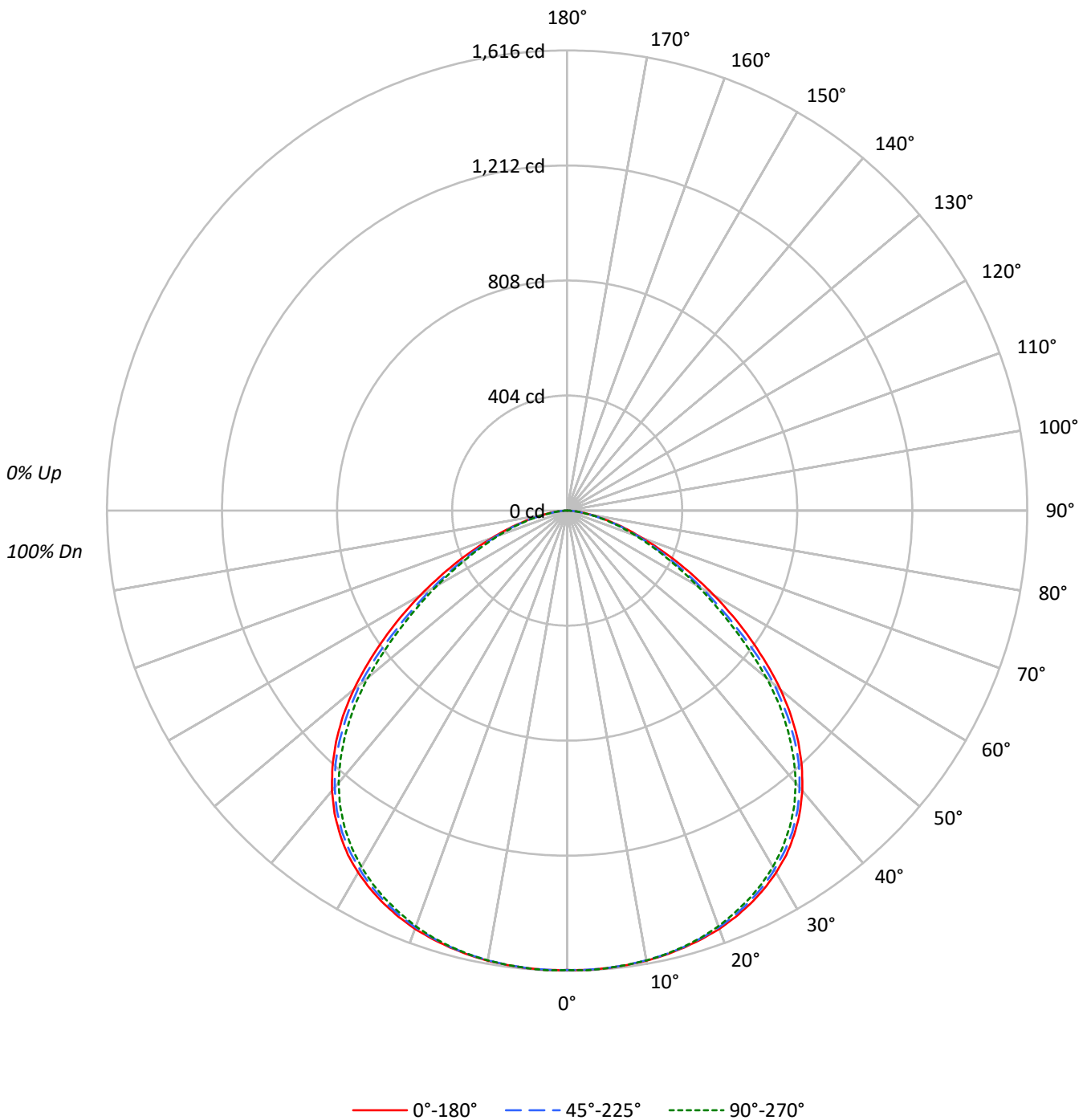
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.0 lumens
Efficiency: N/A
Efficacy: 128.6 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): 33.4
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°	2171	2171	2171
5°	2178	2178	2178
10°	2193	2191	2191
15°	2213	2210	2208
20°	2238	2230	2224
25°	2261	2250	2237
30°	2281	2262	2245
35°	2283	2264	2235
40°	2257	2230	2193
45°	2183	2144	2088
50°	2048	1984	1912
55°	1840	1731	1659
60°	1602	1474	1418
65°	1348	1247	1193
70°	1099	1043	1001
75°	881	849	814
80°	676	623	607
85°	423	409	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.6
10°-20°	448.4	10.4
20°-30°	698.6	16.3
30°-40°	859.5	20.0
40°-50°	863.3	20.1
50°-60°	665.4	15.5
60°-70°	395.0	9.2
70°-80°	175.9	4.1
80°-90°	34.3	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°	1300.7	30.3
0°-40°	2160.2	50.3
0°-60°	3688.8	85.9
0°-90°	4294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1613	1613	1613	1611	1613	154
15°	1588	1588	1586	1584	1585	449
25°	1523	1523	1515	1508	1507	702
35°	1390	1388	1378	1366	1361	868
45°	1148	1144	1127	1108	1098	881
55°	784	769	738	716	707	701
65°	423	405	392	377	375	423
75°	169	166	163	158	156	183
85°	27	26	26	25	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1614.6	1614.2	1614.2	1612.5	1615.9
5°	1612.9	1613.3	1612.9	1611.2	1612.9
7.5°	1609.5	1609.9	1609.0	1607.3	1609.0
10°	1605.2	1605.2	1603.5	1602.6	1603.9
12.5°	1597.9	1597.9	1596.2	1594.9	1596.2
15°	1588.5	1588.5	1586.4	1583.8	1585.1
17.5°	1577.0	1577.0	1573.5	1570.1	1571.0
20°	1562.8	1562.4	1557.7	1553.0	1553.4
22.5°	1544.9	1544.5	1538.5	1532.9	1531.2
25°	1523.1	1522.6	1515.4	1508.5	1506.8
27.5°	1497.8	1496.1	1488.0	1480.3	1478.6
30°	1467.9	1466.6	1455.9	1448.2	1444.8
32.5°	1433.2	1429.8	1420.0	1410.6	1405.9
35°	1390.0	1387.9	1378.1	1366.5	1361.0
37.5°	1341.3	1339.2	1328.5	1315.6	1309.2
40°	1284.8	1283.1	1269.9	1256.6	1248.5
42.5°	1219.8	1218.5	1204.4	1186.0	1177.5
45°	1147.5	1144.5	1126.6	1107.8	1097.5
47.5°	1067.1	1062.0	1040.2	1022.2	1011.1
50°	978.2	971.3	947.8	924.7	913.2
52.5°	881.9	870.0	845.6	819.1	807.9
55°	784.4	769.4	737.8	715.6	707.4
57.5°	689.0	667.2	637.3	621.5	613.3
60°	595.4	571.4	547.9	532.5	526.9
62.5°	506.0	485.9	465.8	450.4	447.0
65°	423.4	405.0	391.8	376.8	374.7
67.5°	346.4	337.9	325.9	313.1	311.4
70°	279.3	275.9	265.2	257.5	254.5
72.5°	222.8	219.4	211.7	206.2	205.3
75°	169.4	166.0	163.4	157.8	156.5
77.5°	120.6	121.0	118.9	115.9	116.8
80°	87.3	82.1	80.4	78.7	78.3
82.5°	53.5	50.5	49.2	48.8	49.6
85°	27.4	26.1	26.5	25.2	26.5
87.5°	9.4	9.4	9.8	9.4	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)