

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: P412517

Luminaire Tested: **24PD-45-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412517
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-L840
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

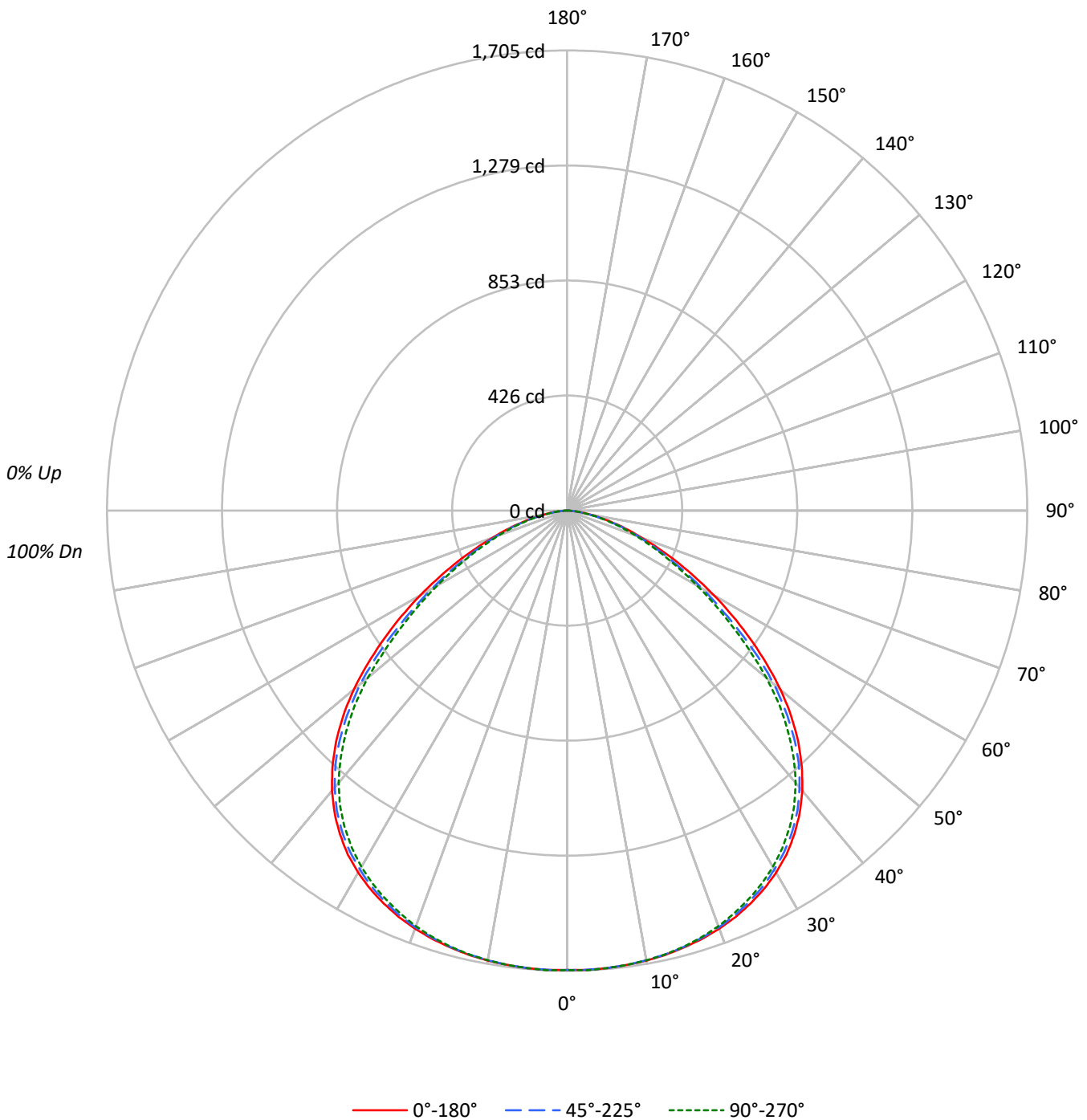
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.0 lumens
Efficiency: N/A
Efficacy: 135.6 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°	2291	2291	2291
5°	2298	2298	2298
10°	2314	2311	2312
15°	2334	2331	2329
20°	2361	2353	2346
25°	2385	2373	2360
30°	2406	2386	2368
35°	2409	2388	2358
40°	2381	2353	2313
45°	2304	2261	2203
50°	2160	2093	2016
55°	1941	1826	1751
60°	1690	1555	1496
65°	1422	1316	1259
70°	1159	1101	1056
75°	929	896	858
80°	713	657	640
85°	446	432	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	3.6
10°-20°	473.1	10.4
20°-30°	737.0	16.3
30°-40°	906.7	20.0
40°-50°	910.7	20.1
50°-60°	701.9	15.5
60°-70°	416.7	9.2
70°-80°	185.5	4.1
80°-90°	36.2	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°	1372.2	30.3
0°-40°	2278.9	50.3
0°-60°	3891.5	85.9
0°-90°	4530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1702	1702	1702	1700	1702	162
15°	1676	1676	1674	1671	1672	474
25°	1607	1606	1599	1591	1590	741
35°	1466	1464	1454	1442	1436	916
45°	1211	1207	1188	1169	1158	929
55°	828	812	778	755	746	740
65°	447	427	413	398	395	446
75°	179	175	172	166	165	193
85°	29	28	28	27	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.4	1702.4	1702.4	1702.4	1702.4
2.5°	1703.3	1702.9	1702.9	1701.1	1704.7
5°	1701.5	1702.0	1701.5	1699.7	1701.5
7.5°	1697.9	1698.4	1697.5	1695.7	1697.5
10°	1693.4	1693.4	1691.6	1690.7	1692.1
12.5°	1685.7	1685.7	1683.9	1682.6	1683.9
15°	1675.8	1675.8	1673.6	1670.8	1672.2
17.5°	1663.6	1663.6	1660.0	1656.4	1657.3
20°	1648.7	1648.3	1643.3	1638.4	1638.8
22.5°	1629.8	1629.3	1623.0	1617.2	1615.3
25°	1606.8	1606.3	1598.7	1591.4	1589.6
27.5°	1580.2	1578.3	1569.8	1561.7	1559.8
30°	1548.6	1547.2	1535.9	1527.8	1524.2
32.5°	1512.0	1508.4	1498.0	1488.1	1483.1
35°	1466.4	1464.2	1453.8	1441.6	1435.8
37.5°	1415.0	1412.8	1401.5	1387.9	1381.2
40°	1355.4	1353.6	1339.7	1325.7	1317.1
42.5°	1286.9	1285.5	1270.6	1251.2	1242.2
45°	1210.6	1207.4	1188.5	1168.6	1157.8
47.5°	1125.8	1120.4	1097.4	1078.4	1066.7
50°	1031.9	1024.7	999.9	975.5	963.3
52.5°	930.4	917.8	892.1	864.1	852.3
55°	827.5	811.7	778.3	754.9	746.3
57.5°	726.9	703.9	672.3	655.6	647.0
60°	628.1	602.8	578.0	561.8	555.9
62.5°	533.8	512.6	491.4	475.1	471.5
65°	446.7	427.3	413.3	397.5	395.3
67.5°	365.5	356.5	343.8	330.3	328.5
70°	294.6	291.0	279.8	271.6	268.5
72.5°	235.1	231.5	223.4	217.5	216.6
75°	178.7	175.1	172.4	166.5	165.1
77.5°	127.2	127.7	125.4	122.3	123.2
80°	92.0	86.6	84.8	83.0	82.6
82.5°	56.4	53.2	51.9	51.4	52.3
85°	28.9	27.5	28.0	26.6	28.0
87.5°	9.9	9.9	10.4	9.9	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)