

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: P412521

Luminaire Tested: **24PD-45-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412521
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-L935
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

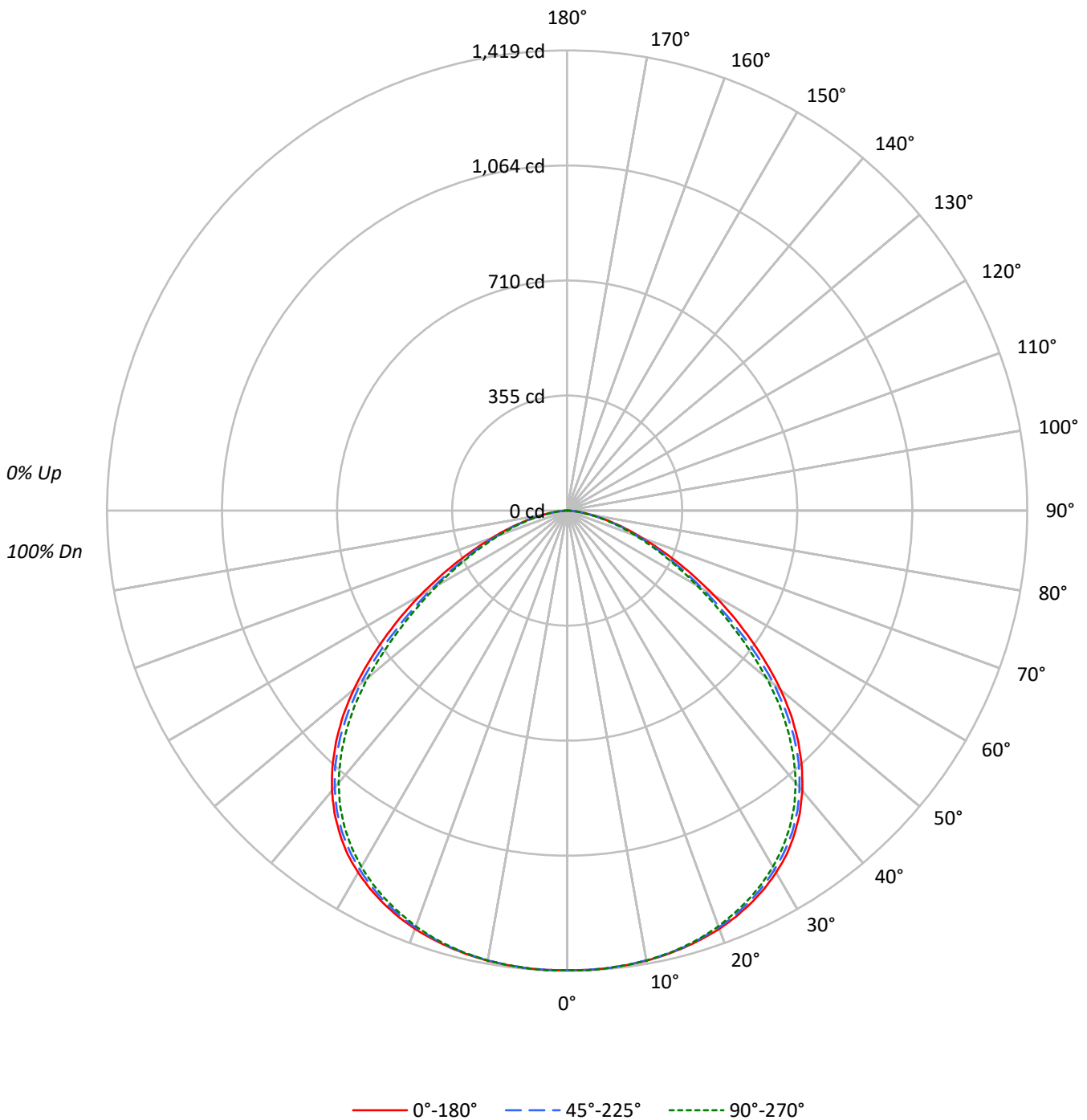
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3771.0 lumens
Efficiency: N/A
Efficacy: 112.9 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°	1907	1907	1907
5°	1913	1913	1913
10°	1926	1924	1924
15°	1943	1941	1939
20°	1965	1959	1953
25°	1986	1976	1965
30°	2003	1986	1971
35°	2005	1988	1963
40°	1982	1959	1926
45°	1918	1883	1834
50°	1798	1742	1679
55°	1616	1520	1457
60°	1407	1295	1245
65°	1184	1096	1047
70°	965	916	879
75°	773	746	715
80°	594	547	532
85°	371	360	360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.6
10°-20°	393.8	10.4
20°-30°	613.5	16.3
30°-40°	754.8	20.0
40°-50°	758.1	20.1
50°-60°	584.3	15.5
60°-70°	346.9	9.2
70°-80°	154.4	4.1
80°-90°	30.2	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°	1142.3	30.3
0°-40°	1897.1	50.3
0°-60°	3239.5	85.9
0°-90°	3771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1416	1417	1416	1415	1416	135
15°	1395	1395	1393	1391	1392	394
25°	1338	1337	1331	1325	1323	617
35°	1221	1219	1210	1200	1195	762
45°	1008	1005	989	973	964	774
55°	689	676	648	628	621	616
65°	372	356	344	331	329	372
75°	149	146	144	139	138	161
85°	24	23	23	22	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1417.9	1417.6	1417.6	1416.1	1419.1
5°	1416.4	1416.8	1416.4	1414.9	1416.4
7.5°	1413.4	1413.8	1413.1	1411.6	1413.1
10°	1409.7	1409.7	1408.2	1407.4	1408.6
12.5°	1403.3	1403.3	1401.8	1400.7	1401.8
15°	1395.0	1395.0	1393.2	1390.9	1392.0
17.5°	1384.9	1384.9	1381.9	1378.9	1379.6
20°	1372.5	1372.1	1368.0	1363.9	1364.2
22.5°	1356.7	1356.3	1351.1	1346.2	1344.7
25°	1337.6	1337.2	1330.8	1324.8	1323.3
27.5°	1315.4	1313.9	1306.8	1300.0	1298.5
30°	1289.1	1288.0	1278.6	1271.8	1268.8
32.5°	1258.7	1255.7	1247.0	1238.8	1234.6
35°	1220.7	1218.9	1210.2	1200.1	1195.2
37.5°	1177.9	1176.0	1166.7	1155.4	1149.8
40°	1128.3	1126.8	1115.2	1103.6	1096.4
42.5°	1071.2	1070.1	1057.7	1041.6	1034.1
45°	1007.8	1005.1	989.4	972.8	963.8
47.5°	937.2	932.6	913.5	897.7	888.0
50°	859.0	853.0	832.4	812.1	801.9
52.5°	774.5	764.0	742.6	719.3	709.5
55°	688.9	675.7	647.9	628.4	621.3
57.5°	605.1	586.0	559.7	545.8	538.6
60°	522.9	501.8	481.2	467.6	462.8
62.5°	444.4	426.7	409.0	395.5	392.5
65°	371.9	355.7	344.1	330.9	329.0
67.5°	304.2	296.7	286.2	274.9	273.4
70°	245.3	242.3	232.9	226.1	223.5
72.5°	195.7	192.7	185.9	181.0	180.3
75°	148.7	145.7	143.5	138.6	137.5
77.5°	105.9	106.3	104.4	101.8	102.5
80°	76.6	72.1	70.6	69.1	68.7
82.5°	47.0	44.3	43.2	42.8	43.6
85°	24.0	22.9	23.3	22.2	23.3
87.5°	8.3	8.3	8.6	8.3	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)