

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: P412523

Luminaire Tested: **24PD-45-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412523
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-L950
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

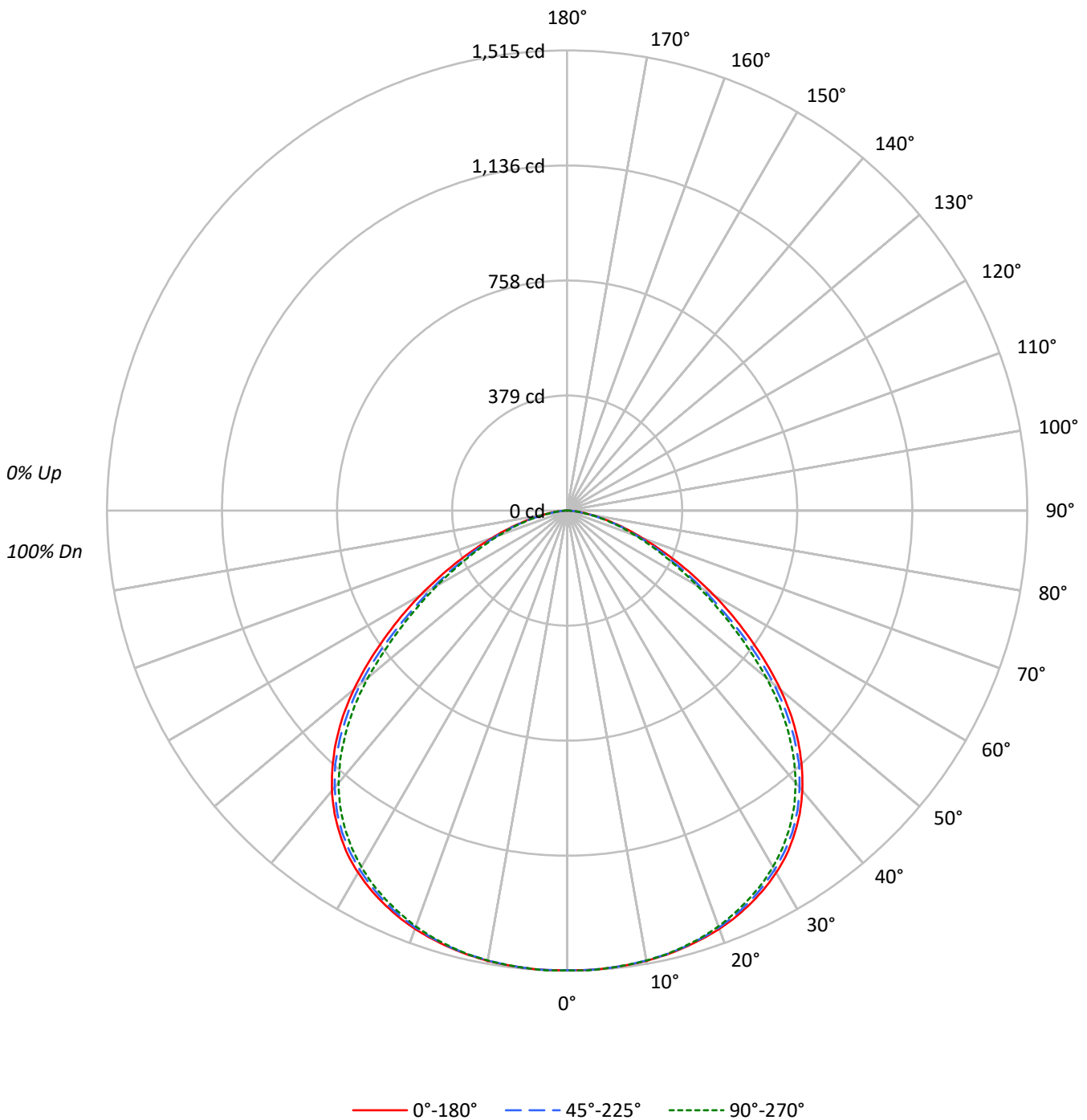
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4027.0 lumens
Efficiency: N/A
Efficacy: 120.6 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°	2036	2036	2036
5°	2043	2043	2043
10°	2057	2055	2055
15°	2075	2072	2071
20°	2099	2092	2086
25°	2121	2110	2098
30°	2139	2121	2105
35°	2141	2123	2096
40°	2116	2092	2056
45°	2048	2010	1959
50°	1920	1861	1793
55°	1726	1623	1556
60°	1502	1383	1330
65°	1264	1170	1119
70°	1030	978	939
75°	826	796	763
80°	634	584	569
85°	397	384	384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.6
10°-20°	420.6	10.4
20°-30°	655.2	16.3
30°-40°	806.0	20.0
40°-50°	809.6	20.1
50°-60°	624.0	15.5
60°-70°	370.4	9.2
70°-80°	164.9	4.1
80°-90°	32.2	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°	1219.8	30.3
0°-40°	2025.9	50.3
0°-60°	3459.4	85.9
0°-90°	4027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1513	1513	1513	1511	1513	144
15°	1490	1490	1488	1485	1486	421
25°	1428	1428	1421	1415	1413	659
35°	1304	1302	1292	1282	1276	814
45°	1076	1073	1056	1039	1029	826
55°	736	722	692	671	663	658
65°	397	380	367	353	351	397
75°	159	156	153	148	147	172
85°	26	24	25	24	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1514.2	1513.8	1513.8	1512.2	1515.4
5°	1512.6	1513.0	1512.6	1511.0	1512.6
7.5°	1509.4	1509.8	1509.0	1507.4	1509.0
10°	1505.4	1505.4	1503.8	1503.0	1504.2
12.5°	1498.6	1498.6	1497.0	1495.7	1497.0
15°	1489.7	1489.7	1487.7	1485.3	1486.5
17.5°	1478.9	1478.9	1475.7	1472.5	1473.3
20°	1465.7	1465.3	1460.9	1456.4	1456.8
22.5°	1448.8	1448.4	1442.8	1437.6	1436.0
25°	1428.4	1428.0	1421.1	1414.7	1413.1
27.5°	1404.7	1403.1	1395.5	1388.3	1386.6
30°	1376.6	1375.4	1365.4	1358.2	1355.0
32.5°	1344.1	1340.9	1331.7	1322.9	1318.5
35°	1303.6	1301.6	1292.4	1281.6	1276.3
37.5°	1257.9	1255.9	1245.9	1233.8	1227.8
40°	1204.9	1203.3	1190.9	1178.5	1170.8
42.5°	1144.0	1142.8	1129.5	1112.3	1104.3
45°	1076.2	1073.4	1056.5	1038.9	1029.3
47.5°	1000.8	996.0	975.5	958.7	948.2
50°	917.3	910.9	888.9	867.2	856.4
52.5°	827.1	815.9	793.0	768.1	757.7
55°	735.6	721.6	691.9	671.1	663.4
57.5°	646.2	625.7	597.7	582.8	575.2
60°	558.3	535.9	513.8	499.4	494.2
62.5°	474.5	455.7	436.8	422.4	419.2
65°	397.1	379.9	367.4	353.4	351.4
67.5°	324.9	316.9	305.6	293.6	292.0
70°	261.9	258.7	248.7	241.5	238.7
72.5°	209.0	205.8	198.6	193.3	192.5
75°	158.8	155.6	153.2	148.0	146.8
77.5°	113.1	113.5	111.5	108.7	109.5
80°	81.8	77.0	75.4	73.8	73.4
82.5°	50.1	47.3	46.1	45.7	46.5
85°	25.7	24.5	24.9	23.7	24.9
87.5°	8.8	8.8	9.2	8.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)