

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: P412514

Luminaire Tested: **24PD-40-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412514
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-L950
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

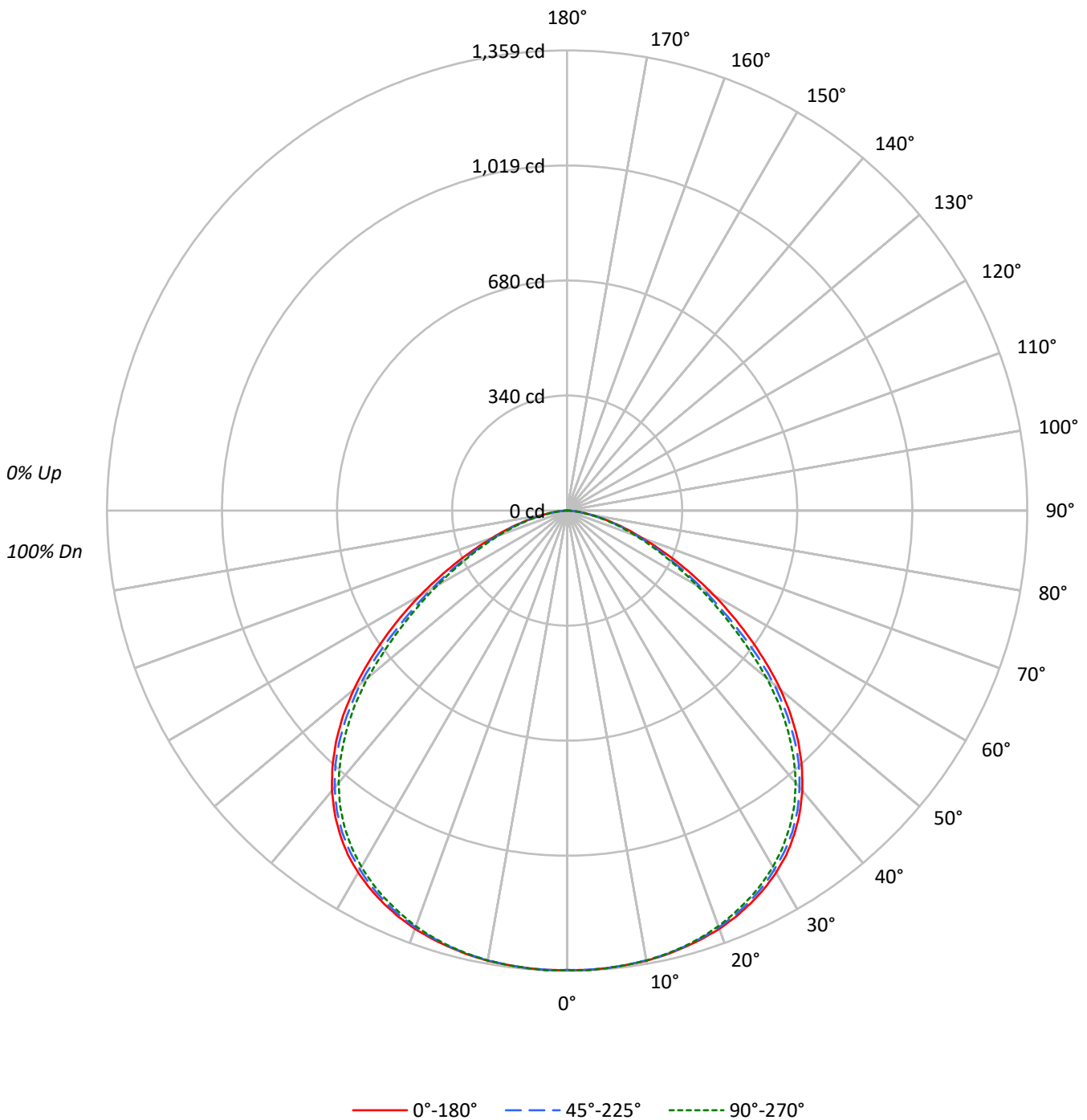
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.0 lumens
Efficiency: N/A
Efficacy: 121.6 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): 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°	1826	1826	1826
5°	1832	1832	1832
10°	1844	1842	1843
15°	1861	1858	1857
20°	1882	1876	1870
25°	1901	1892	1881
30°	1918	1902	1888
35°	1920	1904	1880
40°	1898	1876	1844
45°	1836	1803	1756
50°	1722	1668	1607
55°	1547	1455	1396
60°	1347	1240	1192
65°	1134	1049	1003
70°	924	877	842
75°	740	714	684
80°	569	524	510
85°	355	344	344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.6
10°-20°	377.1	10.4
20°-30°	587.5	16.3
30°-40°	722.8	20.0
40°-50°	726.0	20.1
50°-60°	559.5	15.5
60°-70°	332.2	9.2
70°-80°	147.9	4.1
80°-90°	28.9	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°	1093.8	30.3
0°-40°	1816.6	50.3
0°-60°	3102.1	85.9
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1356	1357	1356	1355	1356	129
15°	1336	1336	1334	1332	1333	378
25°	1281	1280	1274	1269	1267	591
35°	1169	1167	1159	1149	1144	730
45°	965	962	947	932	923	741
55°	660	647	620	602	595	590
65°	356	341	330	317	315	356
75°	142	140	137	133	132	154
85°	23	22	22	21	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1357.8	1357.4	1357.4	1356.0	1358.9
5°	1356.3	1356.7	1356.3	1354.9	1356.3
7.5°	1353.5	1353.8	1353.1	1351.7	1353.1
10°	1349.9	1349.9	1348.4	1347.7	1348.8
12.5°	1343.8	1343.8	1342.3	1341.2	1342.3
15°	1335.8	1335.8	1334.0	1331.9	1333.0
17.5°	1326.1	1326.1	1323.3	1320.4	1321.1
20°	1314.3	1313.9	1309.9	1306.0	1306.3
22.5°	1299.2	1298.8	1293.8	1289.1	1287.6
25°	1280.8	1280.4	1274.3	1268.6	1267.1
27.5°	1259.6	1258.1	1251.3	1244.8	1243.4
30°	1234.4	1233.3	1224.3	1217.9	1215.0
32.5°	1205.3	1202.4	1194.1	1186.2	1182.3
35°	1168.9	1167.2	1158.9	1149.2	1144.5
37.5°	1127.9	1126.1	1117.2	1106.4	1101.0
40°	1080.5	1079.0	1067.9	1056.7	1049.9
42.5°	1025.8	1024.7	1012.8	997.4	990.2
45°	965.0	962.5	947.4	931.6	922.9
47.5°	897.4	893.1	874.7	859.6	850.3
50°	822.6	816.8	797.0	777.6	767.9
52.5°	741.7	731.6	711.1	688.8	679.4
55°	659.6	647.1	620.4	601.7	594.9
57.5°	579.4	561.1	535.9	522.6	515.8
60°	500.7	480.5	460.7	447.8	443.1
62.5°	425.5	408.6	391.7	378.7	375.9
65°	356.1	340.6	329.5	316.9	315.1
67.5°	291.3	284.1	274.1	263.3	261.8
70°	234.9	232.0	223.0	216.5	214.0
72.5°	187.4	184.5	178.0	173.4	172.6
75°	142.4	139.6	137.4	132.7	131.6
77.5°	101.4	101.8	100.0	97.5	98.2
80°	73.4	69.1	67.6	66.2	65.8
82.5°	45.0	42.4	41.4	41.0	41.7
85°	23.0	21.9	22.3	21.2	22.3
87.5°	7.9	7.9	8.3	7.9	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)