

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: P412529

Luminaire Tested: **24PD-50-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412529
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-50-PB1-L930
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

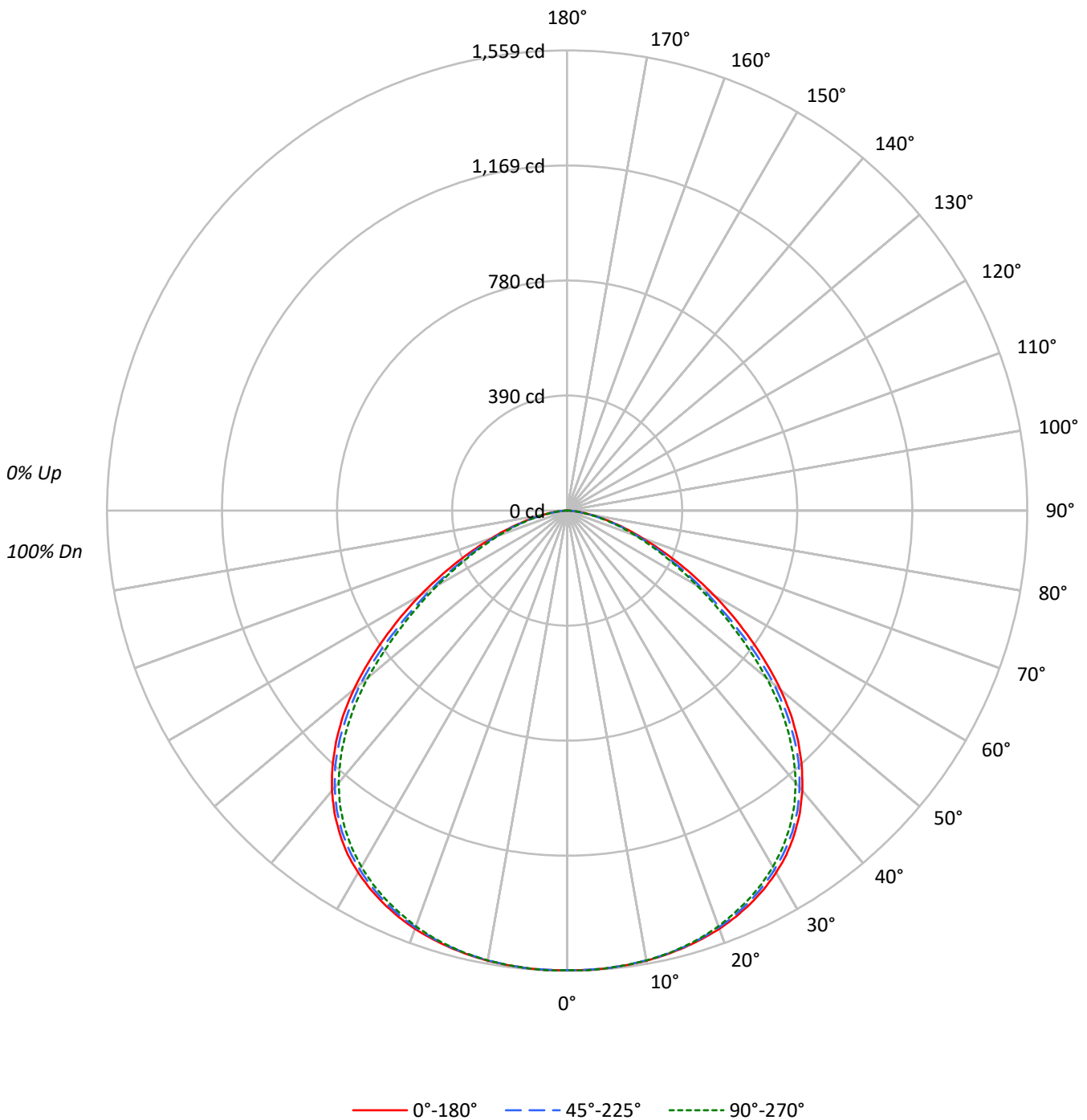
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 110.5 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): 37.5
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°	2095	2095	2095
5°	2102	2102	2102
10°	2116	2114	2114
15°	2135	2132	2130
20°	2159	2152	2146
25°	2182	2171	2158
30°	2200	2182	2166
35°	2203	2184	2157
40°	2177	2152	2116
45°	2107	2068	2015
50°	1976	1914	1844
55°	1775	1670	1601
60°	1546	1422	1368
65°	1301	1203	1151
70°	1060	1007	966
75°	849	819	785
80°	652	601	585
85°	408	395	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.6
10°-20°	432.7	10.4
20°-30°	674.1	16.3
30°-40°	829.2	20.0
40°-50°	832.9	20.1
50°-60°	642.0	15.5
60°-70°	381.1	9.2
70°-80°	169.7	4.1
80°-90°	33.1	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°	1255.0	30.3
0°-40°	2084.2	50.3
0°-60°	3559.1	85.9
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1556	1557	1556	1554	1556	148
15°	1533	1533	1531	1528	1529	433
25°	1470	1469	1462	1456	1454	678
35°	1341	1339	1330	1318	1313	837
45°	1107	1104	1087	1069	1059	850
55°	757	742	712	690	683	677
65°	408	391	378	364	362	408
75°	163	160	158	152	151	177
85°	26	25	26	24	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1557.8	1557.4	1557.4	1555.8	1559.1
5°	1556.2	1556.6	1556.2	1554.5	1556.2
7.5°	1552.9	1553.3	1552.5	1550.8	1552.5
10°	1548.7	1548.7	1547.1	1546.3	1547.5
12.5°	1541.7	1541.7	1540.1	1538.8	1540.1
15°	1532.6	1532.6	1530.6	1528.1	1529.3
17.5°	1521.5	1521.5	1518.2	1514.9	1515.7
20°	1507.9	1507.5	1502.9	1498.4	1498.8
22.5°	1490.6	1490.1	1484.4	1479.0	1477.3
25°	1469.5	1469.1	1462.1	1455.5	1453.8
27.5°	1445.2	1443.5	1435.7	1428.2	1426.6
30°	1416.3	1415.0	1404.7	1397.3	1394.0
32.5°	1382.8	1379.5	1370.1	1361.0	1356.4
35°	1341.2	1339.1	1329.6	1318.5	1313.1
37.5°	1294.1	1292.1	1281.7	1269.4	1263.2
40°	1239.7	1238.0	1225.2	1212.4	1204.6
42.5°	1176.9	1175.7	1162.1	1144.3	1136.1
45°	1107.2	1104.3	1087.0	1068.8	1058.9
47.5°	1029.6	1024.7	1003.6	986.3	975.5
50°	943.8	937.2	914.5	892.2	881.0
52.5°	850.9	839.4	815.8	790.3	779.5
55°	756.8	742.4	711.9	690.4	682.6
57.5°	664.8	643.8	614.9	599.6	591.8
60°	574.4	551.3	528.6	513.8	508.4
62.5°	488.2	468.8	449.4	434.5	431.2
65°	408.5	390.8	378.0	363.6	361.5
67.5°	334.3	326.0	314.5	302.1	300.4
70°	269.5	266.2	255.9	248.4	245.5
72.5°	215.0	211.7	204.3	198.9	198.1
75°	163.4	160.1	157.6	152.3	151.0
77.5°	116.4	116.8	114.7	111.8	112.7
80°	84.2	79.2	77.6	75.9	75.5
82.5°	51.6	48.7	47.5	47.0	47.9
85°	26.4	25.2	25.6	24.3	25.6
87.5°	9.1	9.1	9.5	9.1	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)