

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: P412513

Luminaire Tested: **24PD-40-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412513
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-L940
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

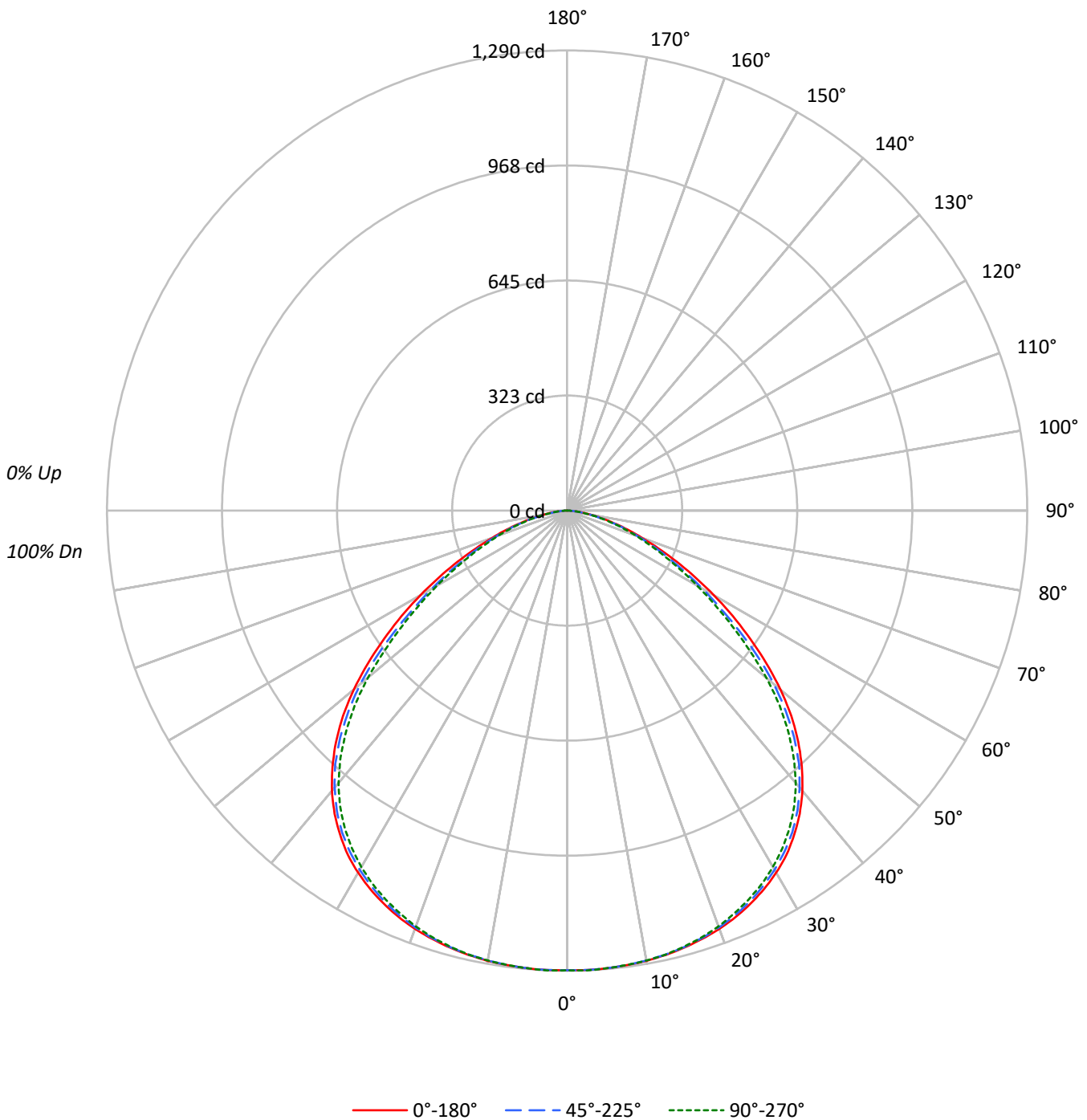
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3429.0 lumens
Efficiency: N/A
Efficacy: 115.5 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): 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

TEST NUMBER: P412513
CATALOG NUMBER: 24PD-40-PB1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P412513

CATALOG NUMBER: 24PD-40-PB1-L940

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°	1734	1734	1734
5°	1740	1740	1740
10°	1751	1749	1750
15°	1767	1765	1763
20°	1787	1781	1776
25°	1806	1796	1786
30°	1821	1806	1793
35°	1823	1808	1785
40°	1802	1781	1751
45°	1744	1712	1668
50°	1635	1584	1526
55°	1469	1382	1325
60°	1279	1177	1132
65°	1076	996	953
70°	877	833	799
75°	703	678	650
80°	540	497	484
85°	338	327	327



TEST NUMBER: P412513

CATALOG NUMBER: 24PD-40-PB1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.6
10°-20°	358.1	10.4
20°-30°	557.9	16.3
30°-40°	686.3	20.0
40°-50°	689.4	20.1
50°-60°	531.3	15.5
60°-70°	315.4	9.2
70°-80°	140.4	4.1
80°-90°	27.4	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°	1038.7	30.3
0°-40°	1725.0	50.3
0°-60°	2945.7	85.9
0°-90°	3429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1288	1288	1288	1287	1288	123
15°	1268	1268	1267	1265	1266	359
25°	1216	1216	1210	1205	1203	561
35°	1110	1108	1100	1091	1087	693
45°	916	914	900	885	876	703
55°	626	614	589	571	565	560
65°	338	323	313	301	299	338
75°	135	132	130	126	125	146
85°	22	21	21	20	21	29
90°	0	0	0	0	0	



TEST NUMBER: P412513

CATALOG NUMBER: 24PD-40-PB1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1289.3	1289.0	1289.0	1287.6	1290.4
5°	1288.0	1288.3	1288.0	1286.6	1288.0
7.5°	1285.2	1285.6	1284.9	1283.5	1284.9
10°	1281.8	1281.8	1280.5	1279.8	1280.8
12.5°	1276.0	1276.0	1274.7	1273.6	1274.7
15°	1268.5	1268.5	1266.8	1264.8	1265.8
17.5°	1259.3	1259.3	1256.6	1253.8	1254.5
20°	1248.0	1247.7	1243.9	1240.2	1240.5
22.5°	1233.7	1233.3	1228.5	1224.1	1222.7
25°	1216.3	1215.9	1210.1	1204.6	1203.3
27.5°	1196.1	1194.7	1188.2	1182.1	1180.7
30°	1172.2	1171.2	1162.6	1156.5	1153.8
32.5°	1144.5	1141.8	1133.9	1126.4	1122.7
35°	1110.0	1108.3	1100.5	1091.2	1086.8
37.5°	1071.1	1069.4	1060.8	1050.6	1045.5
40°	1026.0	1024.6	1014.1	1003.5	997.0
42.5°	974.1	973.1	961.8	947.1	940.3
45°	916.4	914.0	899.6	884.6	876.4
47.5°	852.2	848.1	830.6	816.3	807.4
50°	781.1	775.7	756.9	738.4	729.2
52.5°	704.3	694.7	675.2	654.1	645.2
55°	626.4	614.4	589.2	571.4	564.9
57.5°	550.2	532.8	508.9	496.3	489.8
60°	475.4	456.3	437.5	425.2	420.8
62.5°	404.1	388.0	371.9	359.7	356.9
65°	338.1	323.4	312.9	300.9	299.2
67.5°	276.7	269.8	260.3	250.0	248.6
70°	223.0	220.3	211.8	205.6	203.2
72.5°	177.9	175.2	169.1	164.6	163.9
75°	135.3	132.5	130.5	126.0	125.0
77.5°	96.3	96.7	95.0	92.6	93.2
80°	69.7	65.6	64.2	62.8	62.5
82.5°	42.7	40.3	39.3	38.9	39.6
85°	21.9	20.8	21.2	20.2	21.2
87.5°	7.5	7.5	7.9	7.5	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)