

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: P412604

Luminaire Tested: **24PD-90-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412604
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-90-PB1-L950
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

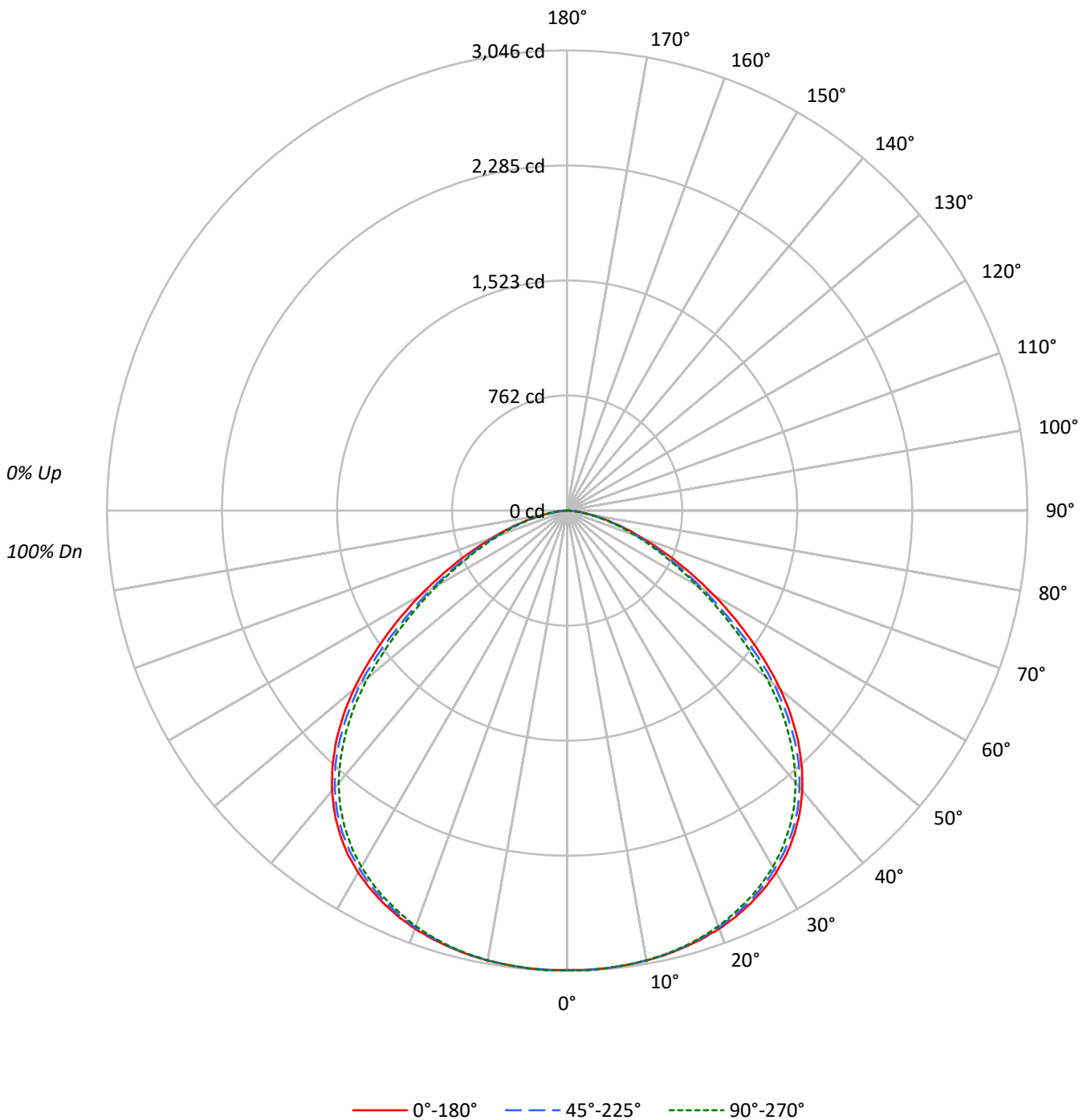
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8093.0 lumens
Efficiency: N/A
Efficacy: 117.8 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): 68.7
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: P412604
CATALOG NUMBER: 24PD-90-PB1-L950

Luminous Intensity Polar Plot





TEST NUMBER: P412604

CATALOG NUMBER: 24PD-90-PB1-L950

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°	4092	4092	4092
5°	4106	4106	4106
10°	4133	4129	4130
15°	4170	4165	4161
20°	4217	4204	4192
25°	4262	4240	4216
30°	4298	4263	4231
35°	4303	4266	4213
40°	4253	4204	4133
45°	4115	4040	3936
50°	3859	3739	3602
55°	3468	3262	3128
60°	3020	2779	2672
65°	2541	2351	2248
70°	2071	1966	1887
75°	1659	1601	1534
80°	1274	1174	1143
85°	797	772	772



TEST NUMBER: P412604

CATALOG NUMBER: 24PD-90-PB1-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	3.6
10°-20°	845.2	10.4
20°-30°	1316.7	16.3
30°-40°	1619.8	20.0
40°-50°	1627.0	20.1
50°-60°	1254.0	15.5
60°-70°	744.5	9.2
70°-80°	331.4	4.1
80°-90°	64.7	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°	2451.5	30.3
0°-40°	4071.3	50.3
0°-60°	6952.4	85.9
0°-90°	8093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3042	3042	3042	3042	3042	
5°	3040	3041	3040	3037	3040	290
15°	2994	2994	2990	2985	2987	847
25°	2871	2870	2856	2843	2840	1324
35°	2620	2616	2597	2576	2565	1636
45°	2163	2157	2123	2088	2068	1660
55°	1478	1450	1390	1349	1333	1322
65°	798	763	738	710	706	797
75°	319	313	308	298	295	346
85°	52	49	50	48	50	69
90°	0	0	0	0	0	



TEST NUMBER: P412604

CATALOG NUMBER: 24PD-90-PB1-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3041.5	3041.5	3041.5	3041.5	3041.5
2.5°	3043.1	3042.3	3042.3	3039.0	3045.5
5°	3039.8	3040.6	3039.8	3036.6	3039.8
7.5°	3033.4	3034.2	3032.6	3029.4	3032.6
10°	3025.3	3025.3	3022.1	3020.5	3022.9
12.5°	3011.6	3011.6	3008.4	3006.0	3008.4
15°	2993.9	2993.9	2989.9	2985.0	2987.4
17.5°	2972.1	2972.1	2965.7	2959.2	2960.8
20°	2945.5	2944.7	2935.9	2927.0	2927.8
22.5°	2911.7	2910.9	2899.6	2889.1	2885.9
25°	2870.6	2869.8	2856.0	2843.1	2839.9
27.5°	2823.0	2819.8	2804.5	2789.9	2786.7
30°	2766.6	2764.2	2744.0	2729.5	2723.0
32.5°	2701.3	2694.8	2676.3	2658.6	2649.7
35°	2619.9	2615.8	2597.3	2575.5	2565.0
37.5°	2528.0	2523.9	2503.8	2479.6	2467.5
40°	2421.6	2418.3	2393.3	2368.4	2353.0
42.5°	2299.0	2296.6	2270.0	2235.3	2219.2
45°	2162.8	2157.2	2123.3	2087.8	2068.5
47.5°	2011.2	2001.6	1960.5	1926.6	1905.6
50°	1843.6	1830.7	1786.3	1742.8	1721.0
52.5°	1662.2	1639.6	1593.7	1543.7	1522.7
55°	1478.4	1450.2	1390.5	1348.6	1333.3
57.5°	1298.6	1257.5	1201.1	1171.3	1156.0
60°	1122.1	1077.0	1032.6	1003.6	993.1
62.5°	953.6	915.7	877.9	848.8	842.4
65°	798.0	763.4	738.4	710.2	706.2
67.5°	652.9	636.8	614.3	590.1	586.8
70°	526.4	519.9	499.8	485.3	479.6
72.5°	420.0	413.5	399.0	388.5	386.9
75°	319.2	312.8	307.9	297.5	295.0
77.5°	227.3	228.1	224.1	218.5	220.1
80°	164.4	154.8	151.5	148.3	147.5
82.5°	100.8	95.1	92.7	91.9	93.5
85°	51.6	49.2	50.0	47.6	50.0
87.5°	17.7	17.7	18.5	17.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)