

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: P412603

Luminaire Tested: **24PD-90-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412603
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-L940
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

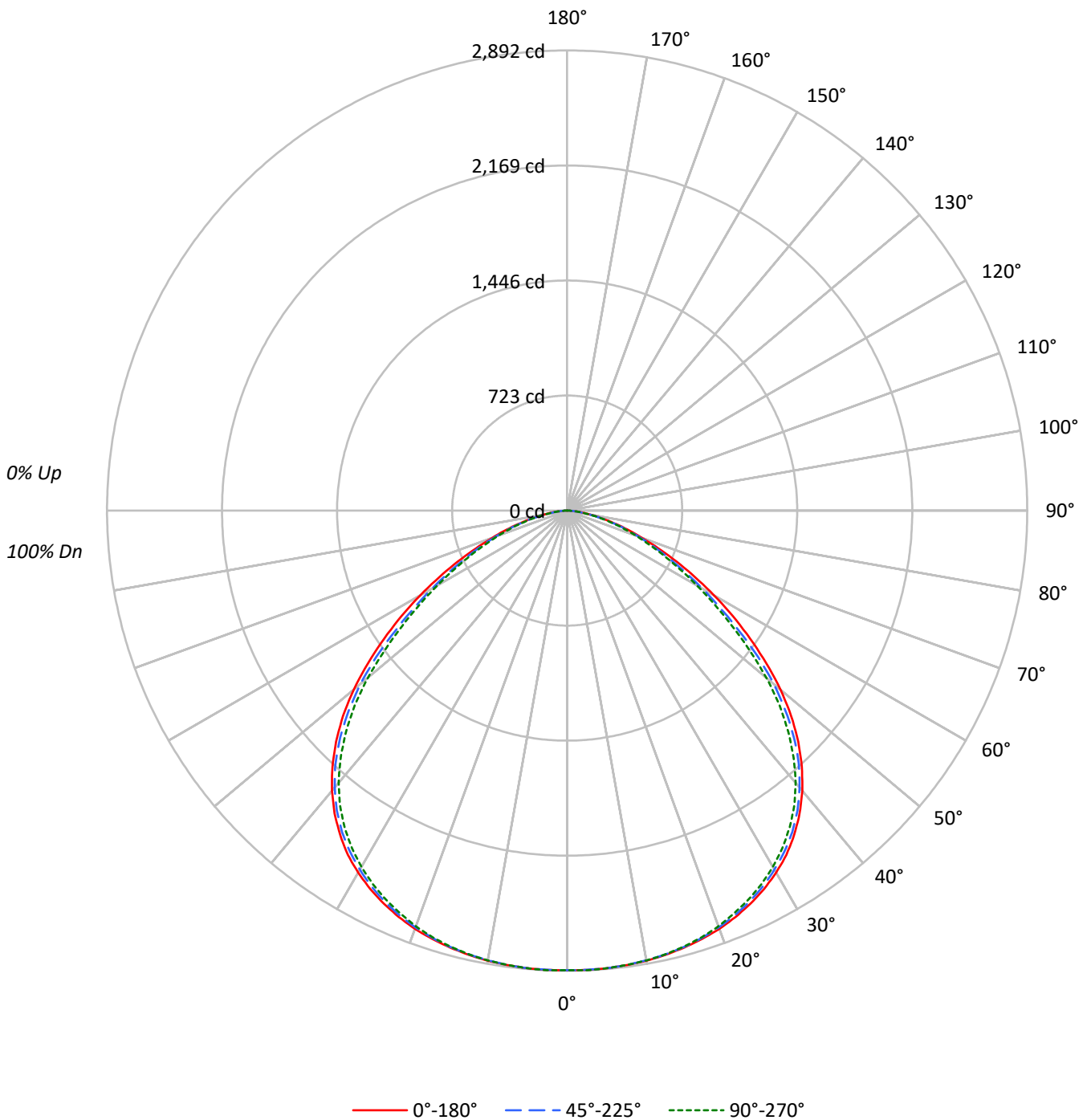
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7685.0 lumens
Efficiency: N/A
Efficacy: 111.9 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: P412603
CATALOG NUMBER: 24PD-90-PB1-L940

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	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°	3886	3886	3886
5°	3899	3899	3899
10°	3925	3921	3922
15°	3960	3955	3952
20°	4005	3992	3981
25°	4047	4026	4004
30°	4082	4048	4017
35°	4086	4051	4001
40°	4039	3992	3925
45°	3908	3837	3737
50°	3664	3551	3421
55°	3293	3097	2970
60°	2867	2639	2538
65°	2413	2232	2135
70°	1967	1867	1792
75°	1576	1520	1457
80°	1210	1115	1086
85°	756	733	733



TEST NUMBER: P412603

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	3.6
10°-20°	802.6	10.4
20°-30°	1250.4	16.3
30°-40°	1538.2	20.0
40°-50°	1545.0	20.1
50°-60°	1190.8	15.5
60°-70°	706.9	9.2
70°-80°	314.7	4.1
80°-90°	61.5	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°	2327.9	30.3
0°-40°	3866.1	50.3
0°-60°	6601.9	85.9
0°-90°	7685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2888	2888	2888	2888	2888	
5°	2887	2887	2887	2884	2887	275
15°	2843	2843	2839	2834	2837	804
25°	2726	2725	2712	2700	2697	1257
35°	2488	2484	2466	2446	2436	1553
45°	2054	2048	2016	1983	1964	1576
55°	1404	1377	1320	1281	1266	1255
65°	758	725	701	674	671	757
75°	303	297	292	282	280	328
85°	49	47	48	45	48	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2888.1	2888.1	2888.1	2888.1	2888.1
2.5°	2889.7	2888.9	2888.9	2885.8	2891.9
5°	2886.6	2887.4	2886.6	2883.5	2886.6
7.5°	2880.5	2881.2	2879.7	2876.6	2879.7
10°	2872.8	2872.8	2869.7	2868.2	2870.5
12.5°	2859.8	2859.8	2856.7	2854.4	2856.7
15°	2843.0	2843.0	2839.1	2834.5	2836.8
17.5°	2822.3	2822.3	2816.2	2810.0	2811.6
20°	2797.0	2796.3	2787.8	2779.4	2780.2
22.5°	2764.9	2764.1	2753.4	2743.4	2740.4
25°	2725.8	2725.1	2712.1	2699.8	2696.8
27.5°	2680.7	2677.6	2663.1	2649.3	2646.2
30°	2627.1	2624.8	2605.7	2591.9	2585.8
32.5°	2565.1	2559.0	2541.4	2524.5	2516.1
35°	2487.8	2484.0	2466.3	2445.7	2435.7
37.5°	2400.5	2396.7	2377.6	2354.6	2343.1
40°	2299.5	2296.4	2272.7	2249.0	2234.4
42.5°	2183.1	2180.8	2155.6	2122.7	2107.3
45°	2053.8	2048.4	2016.3	1982.6	1964.2
47.5°	1909.8	1900.7	1861.6	1829.5	1809.6
50°	1750.6	1738.4	1696.3	1654.9	1634.3
52.5°	1578.4	1557.0	1513.3	1465.9	1446.0
55°	1403.9	1377.1	1320.4	1280.6	1266.1
57.5°	1233.2	1194.1	1140.6	1112.2	1097.7
60°	1065.5	1022.7	980.6	953.0	943.1
62.5°	905.6	869.6	833.6	806.0	799.9
65°	757.8	724.9	701.2	674.4	670.6
67.5°	620.0	604.7	583.3	560.3	557.3
70°	499.9	493.7	474.6	460.8	455.5
72.5°	398.8	392.7	378.9	369.0	367.4
75°	303.1	297.0	292.4	282.5	280.2
77.5°	215.9	216.6	212.8	207.4	209.0
80°	156.2	147.0	143.9	140.8	140.1
82.5°	95.7	90.3	88.0	87.3	88.8
85°	49.0	46.7	47.5	45.2	47.5
87.5°	16.8	16.8	17.6	16.8	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)