

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: P412601

Luminaire Tested: **24PD-90-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412601
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-L930
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

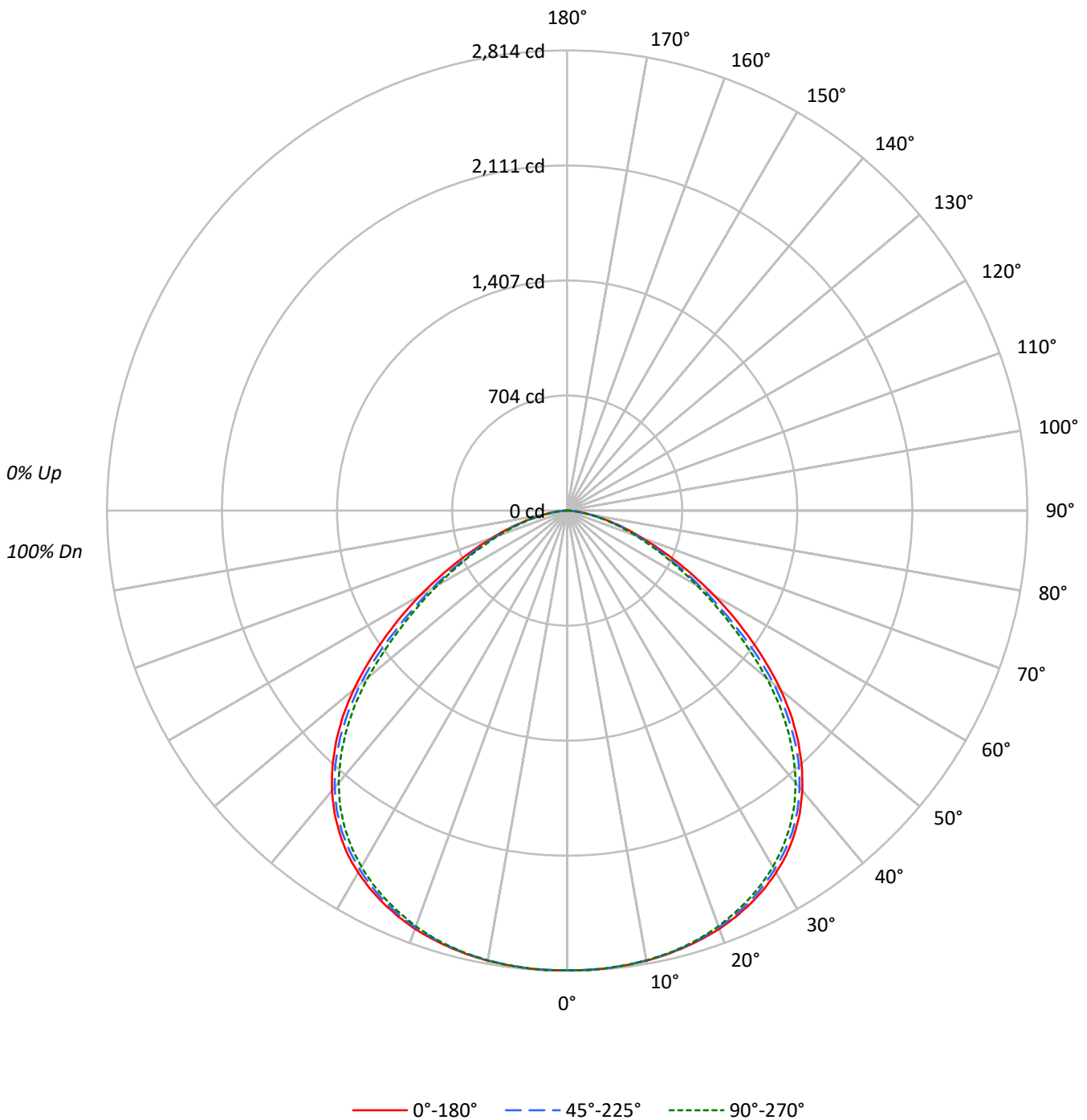
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7478.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

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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°	3781	3781	3781
5°	3794	3794	3794
10°	3819	3815	3816
15°	3853	3848	3845
20°	3897	3884	3874
25°	3938	3918	3896
30°	3972	3939	3909
35°	3976	3942	3893
40°	3930	3884	3819
45°	3803	3733	3637
50°	3566	3455	3329
55°	3205	3014	2890
60°	2790	2568	2470
65°	2348	2172	2077
70°	1913	1817	1744
75°	1534	1479	1417
80°	1177	1085	1056
85°	736	713	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	3.6
10°-20°	781.0	10.4
20°-30°	1216.7	16.3
30°-40°	1496.7	20.0
40°-50°	1503.4	20.1
50°-60°	1158.7	15.5
60°-70°	687.9	9.2
70°-80°	306.3	4.1
80°-90°	59.8	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°	2265.2	30.3
0°-40°	3761.9	50.3
0°-60°	6424.1	85.9
0°-90°	7478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2810	2810	2810	2810	2810	
5°	2809	2810	2809	2806	2809	268
15°	2766	2766	2763	2758	2760	782
25°	2652	2652	2639	2627	2624	1223
35°	2421	2417	2400	2380	2370	1512
45°	1998	1993	1962	1929	1911	1534
55°	1366	1340	1285	1246	1232	1222
65°	737	705	682	656	652	737
75°	295	289	284	275	273	319
85°	48	45	46	44	46	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2810.3	2810.3	2810.3	2810.3	2810.3
2.5°	2811.8	2811.1	2811.1	2808.1	2814.1
5°	2808.8	2809.6	2808.8	2805.9	2808.8
7.5°	2802.9	2803.6	2802.1	2799.2	2802.1
10°	2795.4	2795.4	2792.5	2791.0	2793.2
12.5°	2782.8	2782.8	2779.8	2777.6	2779.8
15°	2766.4	2766.4	2762.7	2758.2	2760.4
17.5°	2746.3	2746.3	2740.3	2734.4	2735.8
20°	2721.7	2720.9	2712.8	2704.6	2705.3
22.5°	2690.4	2689.7	2679.2	2669.6	2666.6
25°	2652.4	2651.7	2639.0	2627.1	2624.1
27.5°	2608.5	2605.5	2591.3	2577.9	2575.0
30°	2556.3	2554.1	2535.5	2522.1	2516.1
32.5°	2496.0	2490.0	2472.9	2456.5	2448.3
35°	2420.8	2417.0	2399.9	2379.8	2370.1
37.5°	2335.9	2332.1	2313.5	2291.2	2280.0
40°	2237.5	2234.6	2211.5	2188.4	2174.2
42.5°	2124.3	2122.1	2097.5	2065.5	2050.6
45°	1998.4	1993.2	1961.9	1929.2	1911.3
47.5°	1858.4	1849.5	1811.5	1780.2	1760.8
50°	1703.5	1691.6	1650.6	1610.4	1590.3
52.5°	1535.9	1515.0	1472.6	1426.4	1407.0
55°	1366.1	1340.0	1284.9	1246.1	1232.0
57.5°	1200.0	1162.0	1109.8	1082.3	1068.1
60°	1036.8	995.1	954.2	927.3	917.7
62.5°	881.2	846.2	811.1	784.3	778.4
65°	737.4	705.4	682.3	656.2	652.5
67.5°	603.3	588.4	567.6	545.2	542.3
70°	486.4	480.4	461.8	448.4	443.2
72.5°	388.1	382.1	368.7	359.0	357.5
75°	295.0	289.0	284.5	274.9	272.6
77.5°	210.0	210.8	207.1	201.9	203.3
80°	151.9	143.0	140.0	137.1	136.3
82.5°	93.1	87.9	85.7	84.9	86.4
85°	47.7	45.4	46.2	43.9	46.2
87.5°	16.4	16.4	17.1	16.4	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)