

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: P412592

Luminaire Tested: **24PD-85-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412592
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-85-PB1-L930
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

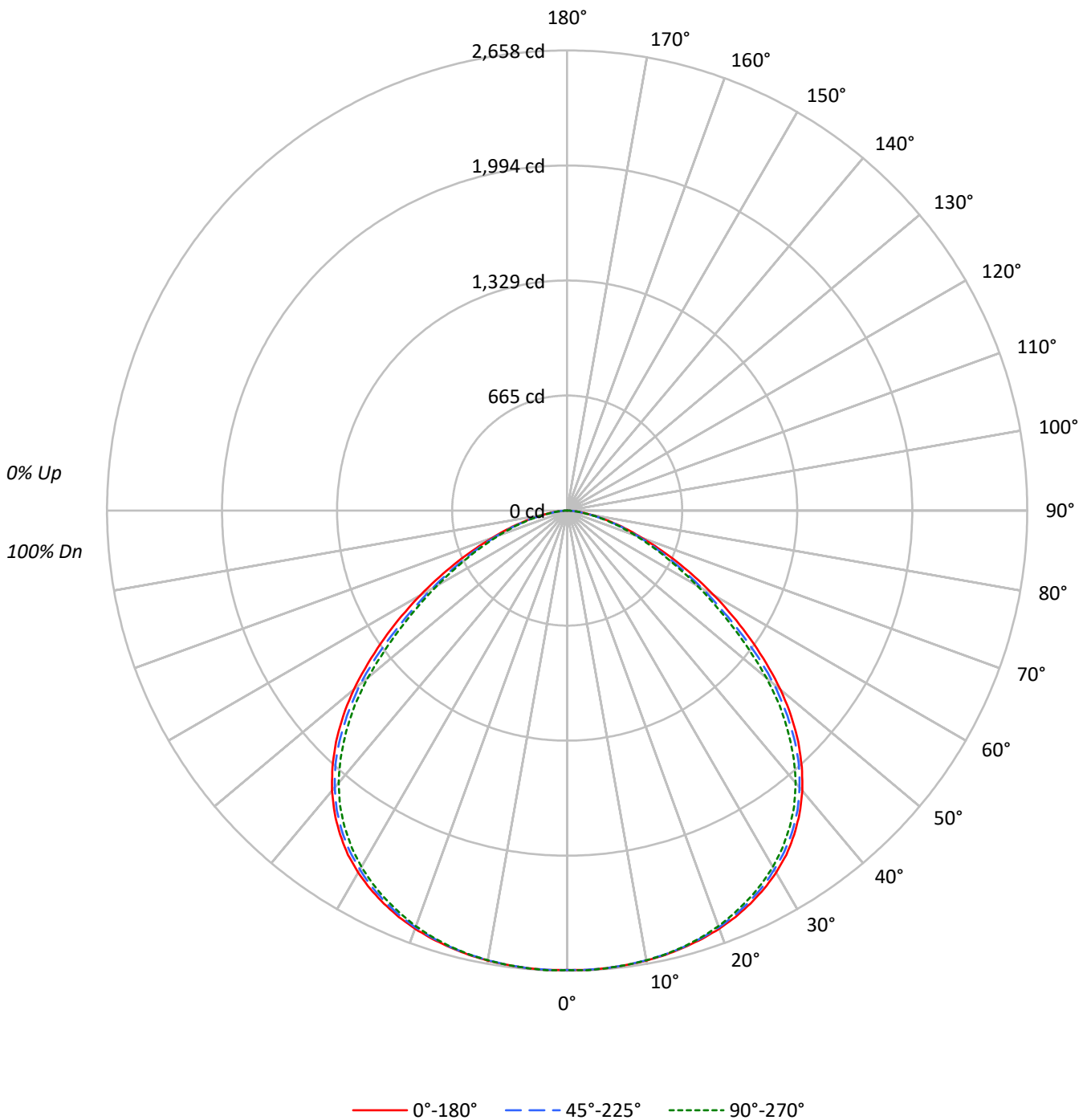
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7062.0 lumens
Efficiency: N/A
Efficacy: 109.5 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): 64.5
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°	3571	3571	3571
5°	3583	3583	3583
10°	3607	3603	3604
15°	3639	3634	3631
20°	3680	3668	3658
25°	3719	3700	3679
30°	3751	3720	3692
35°	3755	3723	3676
40°	3711	3668	3606
45°	3591	3526	3435
50°	3367	3263	3144
55°	3026	2846	2729
60°	2635	2425	2332
65°	2217	2051	1962
70°	1807	1716	1646
75°	1448	1397	1339
80°	1112	1024	997
85°	695	673	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	3.6
10°-20°	737.5	10.4
20°-30°	1149.0	16.3
30°-40°	1413.5	20.0
40°-50°	1419.8	20.1
50°-60°	1094.3	15.5
60°-70°	649.6	9.2
70°-80°	289.2	4.1
80°-90°	56.5	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°	2139.2	30.3
0°-40°	3552.7	50.3
0°-60°	6066.7	85.9
0°-90°	7062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2654	2654	2654	2654	2654	
5°	2653	2653	2653	2650	2653	253
15°	2612	2612	2609	2605	2607	739
25°	2505	2504	2492	2481	2478	1155
35°	2286	2283	2266	2247	2238	1427
45°	1887	1882	1853	1822	1805	1449
55°	1290	1265	1213	1177	1164	1154
65°	696	666	644	620	616	696
75°	279	273	269	260	258	302
85°	45	43	44	42	44	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2654.0	2654.0	2654.0	2654.0	2654.0
2.5°	2655.4	2654.7	2654.7	2651.9	2657.5
5°	2652.6	2653.3	2652.6	2649.8	2652.6
7.5°	2647.0	2647.7	2646.3	2643.4	2646.3
10°	2639.9	2639.9	2637.1	2635.7	2637.8
12.5°	2628.0	2628.0	2625.1	2623.0	2625.1
15°	2612.5	2612.5	2609.0	2604.8	2606.9
17.5°	2593.5	2593.5	2587.9	2582.2	2583.6
20°	2570.3	2569.6	2561.8	2554.1	2554.8
22.5°	2540.7	2540.0	2530.2	2521.0	2518.2
25°	2504.9	2504.2	2492.2	2480.9	2478.1
27.5°	2463.4	2460.6	2447.2	2434.5	2431.7
30°	2414.1	2412.0	2394.4	2381.8	2376.1
32.5°	2357.1	2351.5	2335.3	2319.9	2312.1
35°	2286.1	2282.6	2266.4	2247.4	2238.3
37.5°	2205.9	2202.4	2184.8	2163.7	2153.2
40°	2113.1	2110.2	2088.4	2066.6	2053.3
42.5°	2006.1	2004.0	1980.8	1950.6	1936.5
45°	1887.3	1882.3	1852.8	1821.8	1805.0
47.5°	1755.0	1746.6	1710.7	1681.2	1662.9
50°	1608.7	1597.5	1558.8	1520.8	1501.8
52.5°	1450.4	1430.7	1390.7	1347.0	1328.8
55°	1290.1	1265.4	1213.4	1176.8	1163.5
57.5°	1133.2	1097.3	1048.1	1022.1	1008.7
60°	979.2	939.8	901.1	875.8	866.6
62.5°	832.1	799.1	766.0	740.7	735.1
65°	696.4	666.1	644.3	619.7	616.2
67.5°	569.8	555.7	536.0	514.9	512.1
70°	459.3	453.7	436.1	423.5	418.5
72.5°	366.5	360.9	348.2	339.0	337.6
75°	278.6	272.9	268.7	259.6	257.5
77.5°	198.4	199.1	195.5	190.6	192.0
80°	143.5	135.1	132.2	129.4	128.7
82.5°	87.9	83.0	80.9	80.2	81.6
85°	45.0	42.9	43.6	41.5	43.6
87.5°	15.5	15.5	16.2	15.5	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)