

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: P412583

Luminaire Tested: **24PD-80-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412583
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-80-PB1-L930
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

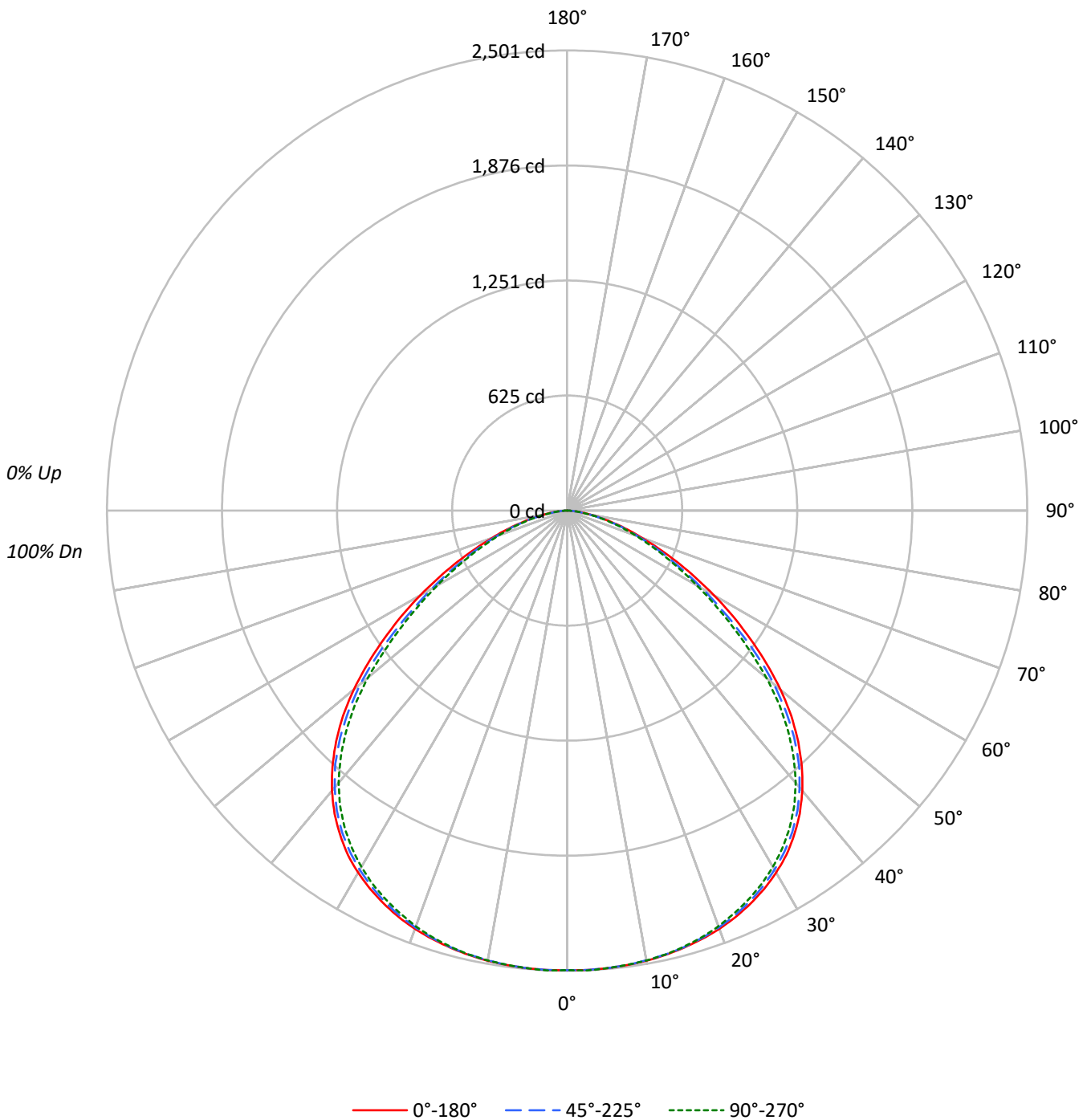
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6647.0 lumens
Efficiency: N/A
Efficacy: 110.2 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): 60.3
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°	3361	3361	3361
5°	3372	3372	3372
10°	3395	3391	3392
15°	3425	3421	3418
20°	3464	3453	3443
25°	3500	3482	3463
30°	3530	3501	3475
35°	3534	3504	3460
40°	3493	3453	3394
45°	3380	3318	3233
50°	3170	3071	2959
55°	2848	2679	2569
60°	2480	2282	2195
65°	2087	1931	1847
70°	1701	1615	1550
75°	1363	1315	1260
80°	1047	965	939
85°	655	633	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	3.6
10°-20°	694.2	10.4
20°-30°	1081.5	16.3
30°-40°	1330.4	20.0
40°-50°	1336.3	20.1
50°-60°	1030.0	15.5
60°-70°	611.4	9.2
70°-80°	272.2	4.1
80°-90°	53.2	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°	2013.5	30.3
0°-40°	3343.9	50.3
0°-60°	5710.2	85.9
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2498	2498	2498	2498	2498	
5°	2497	2497	2497	2494	2497	238
15°	2459	2459	2456	2452	2454	695
25°	2358	2357	2346	2335	2332	1087
35°	2152	2148	2133	2115	2107	1344
45°	1776	1772	1744	1715	1699	1363
55°	1214	1191	1142	1108	1095	1086
65°	656	627	606	583	580	655
75°	262	257	253	244	242	284
85°	42	40	41	39	41	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2498.0	2498.0	2498.0	2498.0	2498.0
2.5°	2499.4	2498.7	2498.7	2496.0	2501.3
5°	2496.7	2497.4	2496.7	2494.1	2496.7
7.5°	2491.4	2492.1	2490.7	2488.1	2490.7
10°	2484.8	2484.8	2482.1	2480.8	2482.8
12.5°	2473.5	2473.5	2470.9	2468.9	2470.9
15°	2459.0	2459.0	2455.7	2451.7	2453.7
17.5°	2441.1	2441.1	2435.8	2430.5	2431.8
20°	2419.2	2418.6	2411.3	2404.0	2404.7
22.5°	2391.4	2390.8	2381.5	2372.9	2370.2
25°	2357.7	2357.0	2345.7	2335.2	2332.5
27.5°	2318.6	2316.0	2303.4	2291.5	2288.8
30°	2272.3	2270.3	2253.7	2241.8	2236.5
32.5°	2218.6	2213.3	2198.1	2183.5	2176.3
35°	2151.8	2148.4	2133.2	2115.3	2106.7
37.5°	2076.3	2073.0	2056.4	2036.6	2026.6
40°	1988.9	1986.2	1965.7	1945.2	1932.6
42.5°	1888.3	1886.3	1864.4	1835.9	1822.7
45°	1776.4	1771.7	1743.9	1714.8	1698.9
47.5°	1651.9	1643.9	1610.2	1582.4	1565.2
50°	1514.2	1503.6	1467.2	1431.4	1413.5
52.5°	1365.2	1346.7	1308.9	1267.9	1250.7
55°	1214.3	1191.1	1142.1	1107.7	1095.1
57.5°	1066.6	1032.8	986.5	962.0	949.4
60°	921.6	884.5	848.1	824.3	815.7
62.5°	783.2	752.1	721.0	697.2	691.9
65°	655.5	627.0	606.5	583.3	580.0
67.5°	536.3	523.0	504.5	484.6	482.0
70°	432.3	427.0	410.5	398.6	393.9
72.5°	344.9	339.6	327.7	319.1	317.8
75°	262.2	256.9	252.9	244.3	242.3
77.5°	186.7	187.4	184.1	179.4	180.7
80°	135.1	127.1	124.5	121.8	121.2
82.5°	82.8	78.1	76.1	75.5	76.8
85°	42.4	40.4	41.0	39.1	41.0
87.5°	14.6	14.6	15.2	14.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)