

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: P412585

Luminaire Tested: **24PD-80-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412585
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-L940
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

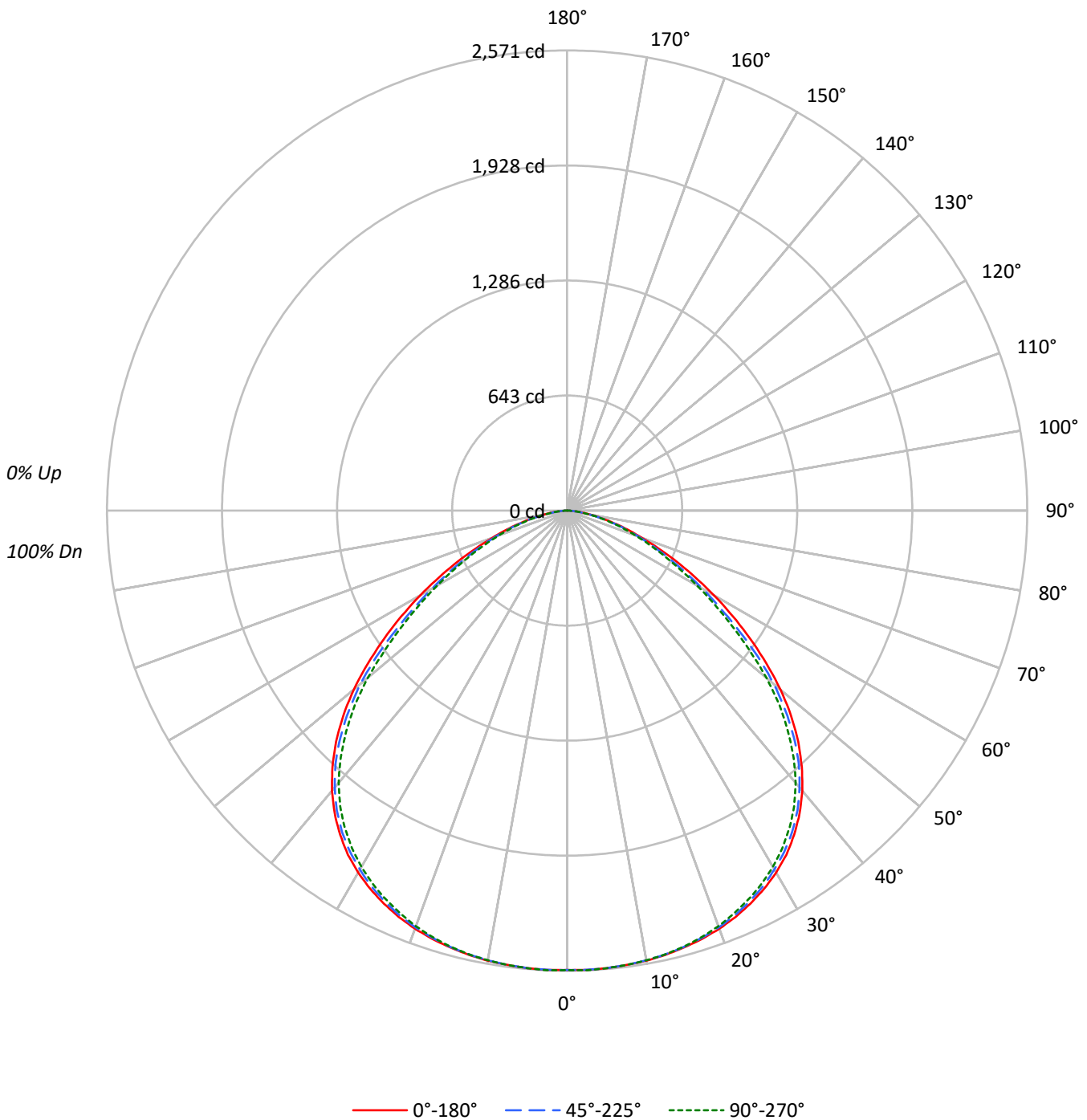
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6831.0 lumens
Efficiency: N/A
Efficacy: 113.3 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 (A_{in}): 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°	3454	3454	3454
5°	3465	3465	3465
10°	3489	3485	3486
15°	3520	3515	3512
20°	3560	3548	3538
25°	3597	3579	3559
30°	3628	3598	3571
35°	3632	3601	3556
40°	3590	3548	3488
45°	3474	3410	3322
50°	3257	3156	3041
55°	2927	2753	2640
60°	2549	2345	2256
65°	2145	1984	1897
70°	1748	1660	1592
75°	1400	1351	1294
80°	1075	991	965
85°	672	651	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	3.6
10°-20°	713.4	10.4
20°-30°	1111.4	16.3
30°-40°	1367.2	20.0
40°-50°	1373.3	20.1
50°-60°	1058.5	15.5
60°-70°	628.4	9.2
70°-80°	279.8	4.1
80°-90°	54.6	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°	2069.2	30.3
0°-40°	3436.5	50.3
0°-60°	5868.2	85.9
0°-90°	6831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2566	2566	2566	2563	2566	245
15°	2527	2527	2524	2520	2522	715
25°	2423	2422	2411	2400	2397	1117
35°	2211	2208	2192	2174	2165	1381
45°	1826	1821	1792	1762	1746	1401
55°	1248	1224	1174	1138	1125	1116
65°	674	644	623	599	596	673
75°	269	264	260	251	249	292
85°	44	42	42	40	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2567.2	2567.2	2567.2	2567.2	2567.2
2.5°	2568.5	2567.9	2567.9	2565.1	2570.6
5°	2565.8	2566.5	2565.8	2563.1	2565.8
7.5°	2560.4	2561.1	2559.7	2557.0	2559.7
10°	2553.6	2553.6	2550.8	2549.5	2551.5
12.5°	2542.0	2542.0	2539.3	2537.2	2539.3
15°	2527.0	2527.0	2523.6	2519.5	2521.6
17.5°	2508.7	2508.7	2503.2	2497.8	2499.1
20°	2486.2	2485.5	2478.0	2470.6	2471.2
22.5°	2457.6	2457.0	2447.4	2438.6	2435.9
25°	2422.9	2422.3	2410.7	2399.8	2397.1
27.5°	2382.8	2380.1	2367.1	2354.9	2352.2
30°	2335.2	2333.1	2316.1	2303.9	2298.4
32.5°	2280.0	2274.6	2259.0	2244.0	2236.5
35°	2211.3	2207.9	2192.3	2173.9	2165.1
37.5°	2133.8	2130.4	2113.3	2092.9	2082.7
40°	2043.9	2041.2	2020.1	1999.0	1986.1
42.5°	1940.5	1938.5	1916.0	1886.8	1873.2
45°	1825.5	1820.8	1792.2	1762.3	1745.9
47.5°	1697.6	1689.5	1654.8	1626.2	1608.5
50°	1556.1	1545.2	1507.8	1471.0	1452.7
52.5°	1403.0	1383.9	1345.2	1303.0	1285.3
55°	1247.9	1224.1	1173.7	1138.3	1125.4
57.5°	1096.1	1061.4	1013.8	988.6	975.7
60°	947.1	909.0	871.6	847.1	838.3
62.5°	804.9	772.9	741.0	716.5	711.0
65°	673.6	644.3	623.3	599.4	596.0
67.5°	551.1	537.5	518.5	498.1	495.3
70°	444.3	438.9	421.9	409.6	404.8
72.5°	354.5	349.0	336.8	328.0	326.6
75°	269.4	264.0	259.9	251.1	249.0
77.5°	191.9	192.6	189.2	184.4	185.8
80°	138.8	130.6	127.9	125.2	124.5
82.5°	85.1	80.3	78.2	77.6	78.9
85°	43.5	41.5	42.2	40.1	42.2
87.5°	15.0	15.0	15.6	15.0	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)