

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: P412945

Luminaire Tested: **24PD-90-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

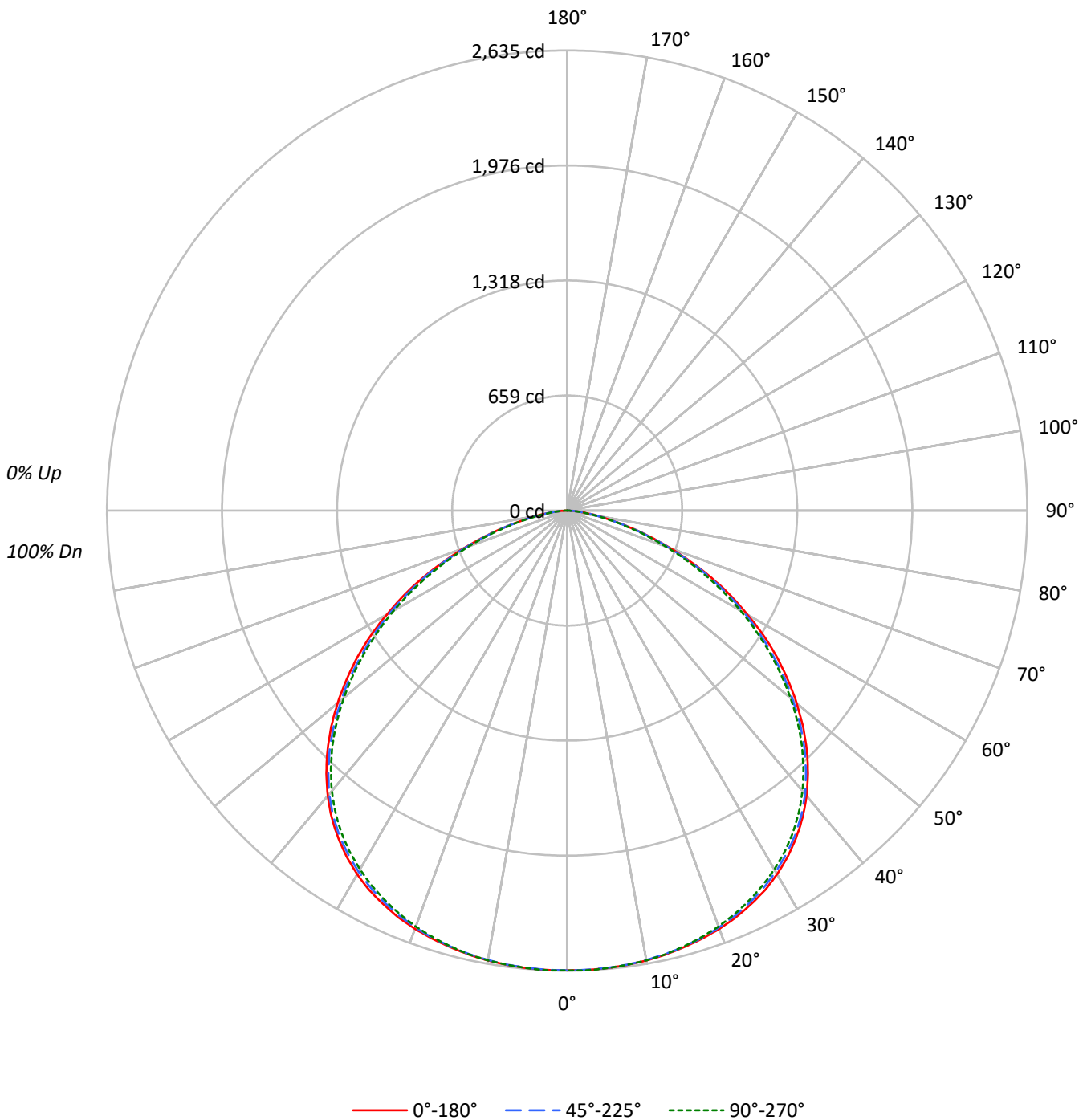
Test Method: LM-79-08  
Report Number: P412945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-90-PP3-L940  
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7661.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3543	3543	3543
5°	3552	3551	3553
10°	3574	3570	3573
15°	3606	3600	3598
20°	3649	3637	3628
25°	3695	3676	3659
30°	3736	3710	3686
35°	3756	3733	3700
40°	3746	3723	3682
45°	3693	3656	3616
50°	3591	3534	3497
55°	3443	3360	3317
60°	3208	3152	3088
65°	2908	2849	2766
70°	2482	2437	2358
75°	1938	1918	1827
80°	1430	1371	1293
85°	863	863	804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	3.3
10°-20°	730.9	9.5
20°-30°	1142.5	14.9
30°-40°	1419.9	18.5
40°-50°	1479.4	19.3
50°-60°	1283.7	16.8
60°-70°	882.7	11.5
70°-80°	398.4	5.2
80°-90°	73.0	1.0
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°	2123.9	27.7
0°-40°	3543.8	46.3
0°-60°	6306.9	82.3
0°-90°	7661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2633	2633	2633	2633	2633	
5°	2630	2631	2629	2627	2631	251
15°	2588	2588	2585	2582	2583	732
25°	2489	2488	2476	2466	2464	1148
35°	2287	2287	2273	2260	2252	1429
45°	1941	1942	1922	1907	1900	1494
55°	1468	1459	1432	1416	1414	1308
65°	913	910	895	874	869	901
75°	373	374	369	359	351	406
85°	56	55	56	55	52	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2632.9	2632.9	2632.9	2632.9	2632.9
2.5°	2633.6	2633.6	2632.1	2629.8	2635.2
5°	2629.8	2630.6	2629.0	2626.7	2630.6
7.5°	2624.4	2625.2	2622.9	2620.6	2623.7
10°	2616.0	2615.3	2613.0	2611.4	2615.3
12.5°	2603.8	2603.0	2600.7	2599.2	2602.2
15°	2588.5	2588.5	2584.6	2582.3	2583.1
17.5°	2570.1	2570.1	2564.7	2559.4	2560.9
20°	2548.6	2547.9	2540.2	2534.9	2534.1
22.5°	2521.9	2521.9	2511.1	2504.2	2501.9
25°	2488.9	2488.2	2475.9	2466.0	2464.4
27.5°	2451.4	2449.9	2435.3	2425.4	2421.6
30°	2404.7	2403.2	2387.9	2377.2	2372.6
32.5°	2349.6	2351.9	2334.3	2322.0	2317.4
35°	2286.8	2286.8	2273.0	2260.0	2252.4
37.5°	2214.9	2214.9	2201.8	2188.8	2179.6
40°	2132.9	2133.7	2119.9	2103.8	2096.2
42.5°	2041.1	2042.6	2024.2	2011.2	2002.8
45°	1940.8	1941.5	1921.6	1907.1	1900.2
47.5°	1832.1	1830.5	1808.3	1796.1	1789.2
50°	1715.7	1712.6	1688.1	1676.6	1670.5
52.5°	1594.0	1587.8	1566.4	1549.6	1544.2
55°	1467.6	1459.2	1432.4	1415.6	1414.0
57.5°	1336.0	1326.0	1303.8	1287.7	1281.6
60°	1192.0	1189.7	1171.4	1152.2	1147.6
62.5°	1057.3	1050.4	1034.3	1011.3	1009.0
65°	913.3	909.5	895.0	873.5	868.9
67.5°	764.8	768.7	756.4	737.3	731.1
70°	630.8	633.1	619.4	601.8	599.5
72.5°	496.1	499.9	488.4	477.0	474.7
75°	372.8	374.4	369.0	359.1	351.4
77.5°	264.9	270.3	264.1	257.2	251.1
80°	184.5	176.1	176.9	173.8	166.9
82.5°	111.0	107.2	106.4	103.4	100.3
85°	55.9	55.1	55.9	55.1	52.1
87.5°	18.4	19.9	20.7	20.7	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)