

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: P412946

Luminaire Tested: **24PD-90-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

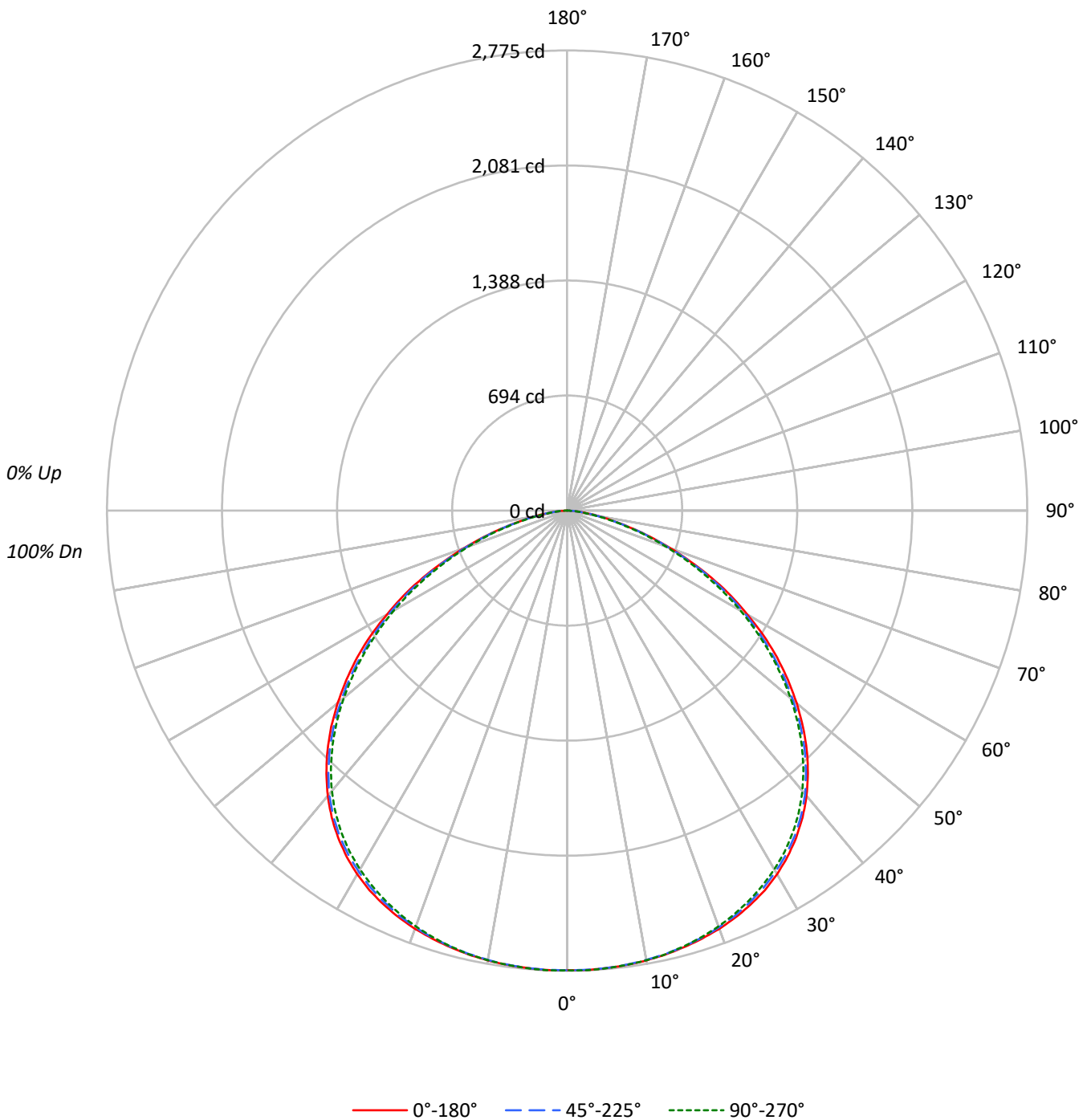
Test Method: LM-79-08  
Report Number: P412946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-90-PP3-L950  
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8067.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

TEST NUMBER: P412946  
CATALOG NUMBER: 24PD-90-PP3-L950

### Luminous Intensity Polar Plot





TEST NUMBER: P412946

CATALOG NUMBER: 24PD-90-PP3-L950

**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°	3730	3730	3730
5°	3740	3739	3741
10°	3764	3759	3763
15°	3797	3791	3789
20°	3843	3830	3821
25°	3891	3870	3852
30°	3934	3906	3881
35°	3955	3931	3896
40°	3945	3921	3877
45°	3889	3850	3807
50°	3782	3721	3682
55°	3625	3538	3493
60°	3378	3319	3252
65°	3062	3000	2913
70°	2613	2566	2483
75°	2041	2020	1923
80°	1506	1443	1361
85°	908	908	846



TEST NUMBER: P412946

CATALOG NUMBER: 24PD-90-PP3-L950

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.8	3.3
10°-20°	769.7	9.5
20°-30°	1203.0	14.9
30°-40°	1495.1	18.5
40°-50°	1557.8	19.3
50°-60°	1351.8	16.8
60°-70°	929.5	11.5
70°-80°	419.5	5.2
80°-90°	76.9	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°	2236.5	27.7
0°-40°	3731.6	46.3
0°-60°	6641.2	82.3
0°-90°	8067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2769	2770	2768	2766	2770	264
15°	2726	2726	2722	2719	2720	771
25°	2621	2620	2607	2597	2595	1209
35°	2408	2408	2394	2380	2372	1505
45°	2044	2044	2024	2008	2001	1573
55°	1545	1536	1508	1491	1489	1377
65°	962	958	942	920	915	949
75°	393	394	389	378	370	427
85°	59	58	59	58	55	79
90°	0	0	0	0	0	



TEST NUMBER: P412946

CATALOG NUMBER: 24PD-90-PP3-L950

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2772.4	2772.4	2772.4	2772.4	2772.4
2.5°	2773.2	2773.2	2771.6	2769.2	2774.8
5°	2769.2	2770.0	2768.4	2765.9	2770.0
7.5°	2763.5	2764.3	2761.9	2759.5	2762.7
10°	2754.7	2753.9	2751.4	2749.8	2753.9
12.5°	2741.8	2741.0	2738.5	2736.9	2740.1
15°	2725.6	2725.6	2721.6	2719.2	2720.0
17.5°	2706.3	2706.3	2700.6	2695.0	2696.6
20°	2683.7	2682.9	2674.8	2669.2	2668.4
22.5°	2655.5	2655.5	2644.2	2637.0	2634.5
25°	2620.8	2620.0	2607.1	2596.6	2595.0
27.5°	2581.3	2579.7	2564.4	2553.9	2549.9
30°	2532.2	2530.5	2514.4	2503.1	2498.3
32.5°	2474.1	2476.5	2458.0	2445.1	2440.3
35°	2408.0	2408.0	2393.5	2379.8	2371.7
37.5°	2332.2	2332.2	2318.5	2304.8	2295.1
40°	2246.0	2246.8	2232.3	2215.3	2207.3
42.5°	2149.2	2150.8	2131.5	2117.8	2108.9
45°	2043.6	2044.4	2023.5	2008.2	2000.9
47.5°	1929.1	1927.5	1904.2	1891.3	1884.0
50°	1806.6	1803.4	1777.6	1765.5	1759.0
52.5°	1678.4	1672.0	1649.4	1631.7	1626.0
55°	1545.4	1536.5	1508.3	1490.6	1489.0
57.5°	1406.8	1396.3	1372.9	1356.0	1349.5
60°	1255.2	1252.8	1233.4	1213.3	1208.4
62.5°	1113.3	1106.1	1089.1	1064.9	1062.5
65°	961.8	957.7	942.4	919.8	915.0
67.5°	805.4	809.4	796.5	776.3	769.9
70°	664.3	666.7	652.2	633.6	631.2
72.5°	522.4	526.4	514.3	502.2	499.8
75°	392.6	394.2	388.6	378.1	370.0
77.5°	278.9	284.6	278.1	270.9	264.4
80°	194.3	185.4	186.2	183.0	175.7
82.5°	116.9	112.9	112.1	108.8	105.6
85°	58.8	58.0	58.8	58.0	54.8
87.5°	19.3	21.0	21.8	21.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)