

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: P412829

Luminaire Tested: **24PD-100-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

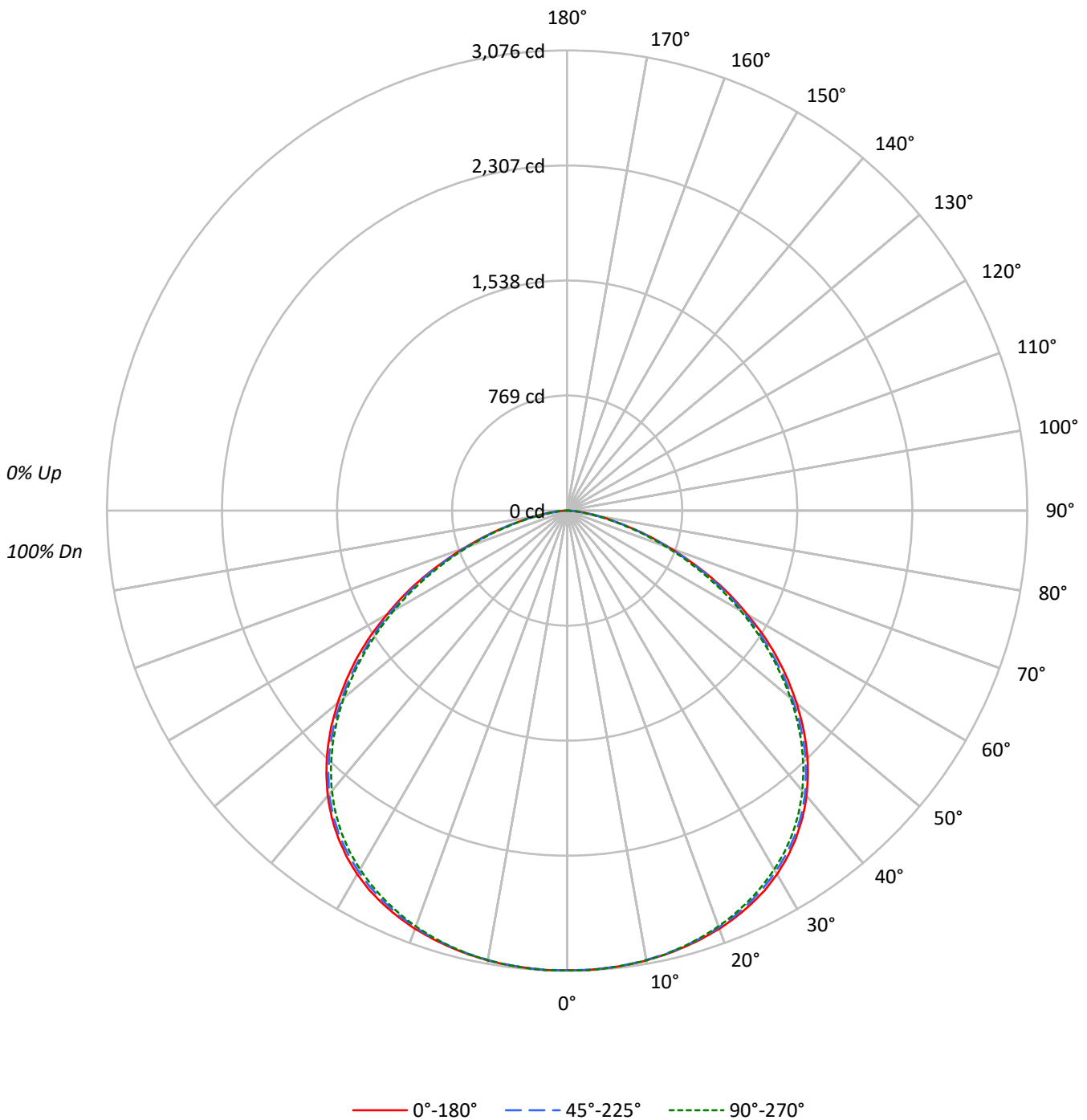
Test Method: LM-79-08  
Report Number: P412829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-100-PP3-L950  
Description: 10000 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: 8942.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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): 77.4  
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°	4135	4135	4135
5°	4146	4145	4147
10°	4172	4167	4171
15°	4209	4202	4200
20°	4259	4245	4235
25°	4313	4290	4270
30°	4361	4330	4302
35°	4384	4358	4318
40°	4373	4346	4297
45°	4310	4268	4220
50°	4192	4124	4081
55°	4018	3922	3872
60°	3744	3679	3605
65°	3394	3326	3229
70°	2897	2844	2753
75°	2262	2239	2132
80°	1669	1599	1509
85°	1007	1007	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.4	3.3
10°-20°	853.2	9.5
20°-30°	1333.5	14.9
30°-40°	1657.3	18.5
40°-50°	1726.8	19.3
50°-60°	1498.4	16.8
60°-70°	1030.3	11.5
70°-80°	465.0	5.2
80°-90°	85.2	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°	2479.0	27.7
0°-40°	4136.4	46.3
0°-60°	7361.5	82.3
0°-90°	8942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3073	3073	3073	3073	3073	
5°	3070	3070	3069	3066	3070	293
15°	3021	3021	3017	3014	3015	855
25°	2905	2904	2890	2878	2876	1340
35°	2669	2669	2653	2638	2629	1668
45°	2265	2266	2243	2226	2218	1744
55°	1713	1703	1672	1652	1650	1527
65°	1066	1062	1045	1020	1014	1052
75°	435	437	431	419	410	474
85°	65	64	65	64	61	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3073.1	3073.1	3073.1	3073.1	3073.1
2.5°	3074.0	3074.0	3072.2	3069.5	3075.8
5°	3069.5	3070.4	3068.6	3066.0	3070.4
7.5°	3063.3	3064.2	3061.5	3058.8	3062.4
10°	3053.4	3052.6	3049.9	3048.1	3052.6
12.5°	3039.1	3038.3	3035.6	3033.8	3037.4
15°	3021.3	3021.3	3016.8	3014.1	3015.0
17.5°	2999.8	2999.8	2993.6	2987.3	2989.1
20°	2974.8	2973.9	2965.0	2958.7	2957.8
22.5°	2943.5	2943.5	2931.0	2923.0	2920.3
25°	2905.1	2904.2	2889.9	2878.3	2876.5
27.5°	2861.3	2859.5	2842.6	2830.9	2826.5
30°	2806.8	2805.0	2787.2	2774.6	2769.3
32.5°	2742.5	2745.2	2724.6	2710.3	2704.9
35°	2669.2	2669.2	2653.1	2637.9	2629.0
37.5°	2585.2	2585.2	2570.0	2554.8	2544.1
40°	2489.6	2490.5	2474.4	2455.6	2446.7
42.5°	2382.3	2384.1	2362.7	2347.5	2337.7
45°	2265.3	2266.2	2242.9	2226.0	2217.9
47.5°	2138.4	2136.6	2110.7	2096.4	2088.4
50°	2002.6	1999.0	1970.4	1957.0	1949.8
52.5°	1860.5	1853.3	1828.3	1808.7	1802.4
55°	1713.0	1703.2	1671.9	1652.3	1650.5
57.5°	1559.3	1547.7	1521.8	1503.0	1495.9
60°	1391.3	1388.7	1367.2	1344.9	1339.5
62.5°	1234.1	1226.0	1207.3	1180.5	1177.8
65°	1066.1	1061.6	1044.6	1019.6	1014.2
67.5°	892.7	897.2	882.9	860.5	853.4
70°	736.3	739.0	722.9	702.4	699.7
72.5°	579.1	583.5	570.1	556.7	554.0
75°	435.2	437.0	430.7	419.1	410.2
77.5°	309.2	315.4	308.3	300.3	293.1
80°	215.4	205.5	206.4	202.8	194.8
82.5°	129.6	125.1	124.2	120.6	117.1
85°	65.2	64.3	65.2	64.3	60.8
87.5°	21.4	23.2	24.1	24.1	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)