

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: P412469

Luminaire Tested: **22PD-80-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

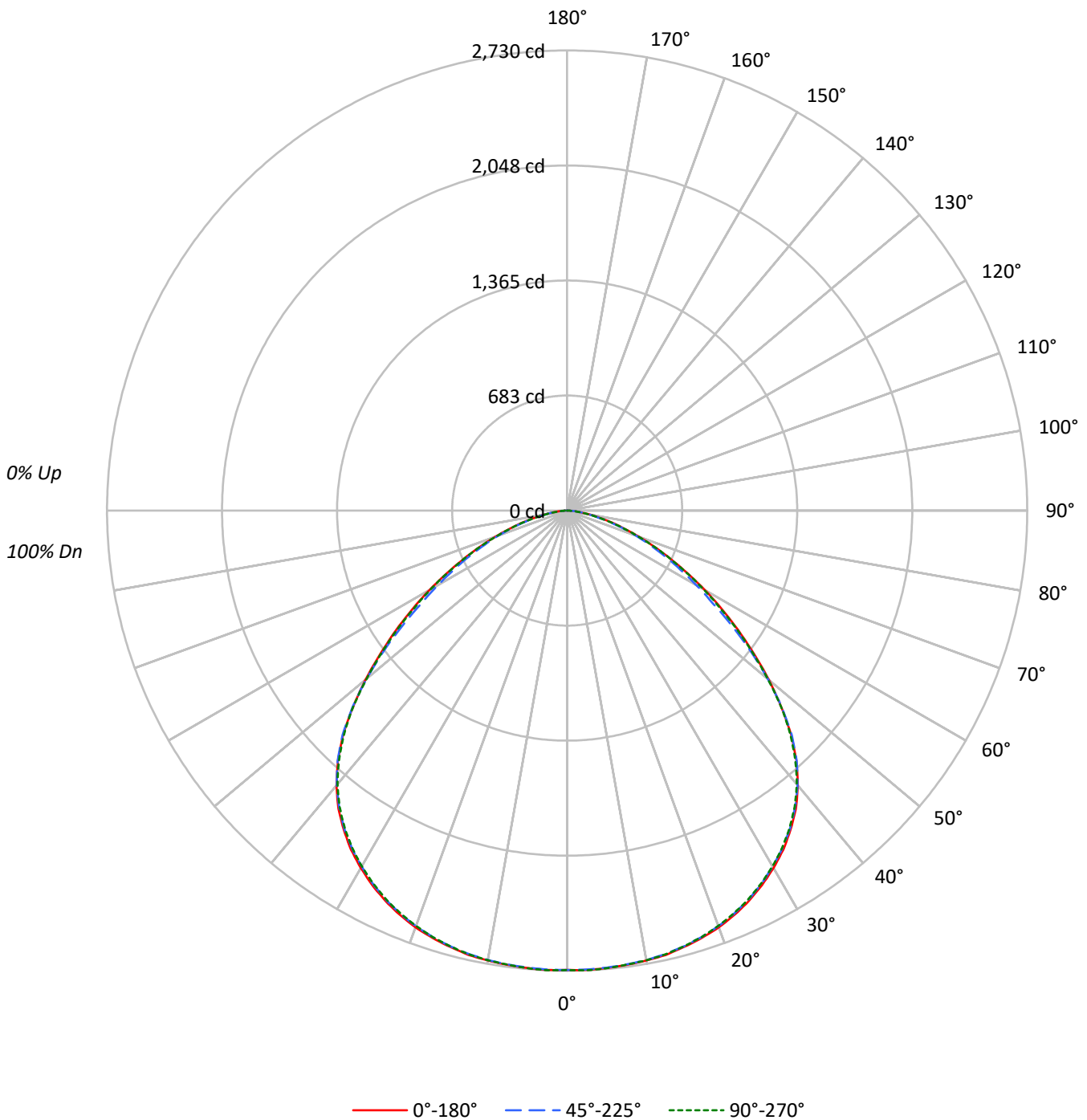
Test Method: LM-79-08  
Report Number: P412469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PB1-L950  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7156.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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					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	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

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

	0°	45°	90°
0°	7335	7335	7335
5°	7358	7351	7361
10°	7406	7397	7402
15°	7467	7455	7455
20°	7535	7513	7509
25°	7583	7560	7553
30°	7608	7576	7571
35°	7592	7570	7556
40°	7479	7470	7446
45°	7150	7172	7117
50°	6545	6510	6503
55°	5817	5611	5777
60°	5071	4763	5040
65°	4299	4068	4277
70°	3555	3408	3521
75°	2874	2690	2760
80°	2077	2011	1999
85°	1352	1352	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	3.6
10°-20°	756.4	10.6
20°-30°	1173.7	16.4
30°-40°	1439.3	20.1
40°-50°	1438.8	20.1
50°-60°	1089.9	15.2
60°-70°	653.6	9.1
70°-80°	287.8	4.0
80°-90°	57.1	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°	2189.5	30.6
0°-40°	3628.8	50.7
0°-60°	6157.5	86.0
0°-90°	7156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2724	2721	2722	2721	2725	260
15°	2680	2678	2676	2674	2676	758
25°	2554	2549	2546	2542	2544	1177
35°	2311	2310	2304	2303	2300	1443
45°	1879	1881	1885	1880	1870	1438
55°	1240	1213	1196	1212	1231	1111
65°	675	652	639	650	672	675
75°	276	270	259	263	266	295
85°	44	46	44	42	42	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	2728.2	2724.0	2724.9	2724.9	2729.9
5°	2724.0	2720.7	2721.5	2720.7	2724.9
7.5°	2718.1	2714.8	2715.6	2714.8	2717.3
10°	2710.5	2707.2	2707.2	2705.5	2708.9
12.5°	2700.4	2696.2	2694.5	2693.7	2696.2
15°	2680.2	2677.7	2676.0	2674.3	2676.0
17.5°	2658.3	2654.1	2652.4	2649.0	2652.4
20°	2631.3	2625.4	2623.7	2621.2	2622.0
22.5°	2595.9	2590.9	2588.3	2584.1	2585.8
25°	2553.8	2548.7	2546.2	2542.0	2543.7
27.5°	2504.9	2501.5	2495.6	2492.2	2493.1
30°	2448.4	2445.1	2438.3	2436.6	2436.6
32.5°	2386.1	2381.8	2375.9	2374.3	2373.4
35°	2311.0	2310.2	2304.3	2302.6	2300.1
37.5°	2229.3	2227.6	2220.9	2219.2	2216.6
40°	2129.0	2127.3	2126.5	2123.1	2119.7
42.5°	2012.7	2015.2	2016.9	2010.2	2003.4
45°	1878.7	1881.2	1884.6	1879.5	1870.2
47.5°	1721.9	1732.0	1727.0	1730.3	1721.1
50°	1563.5	1563.5	1555.0	1558.4	1553.3
52.5°	1397.4	1383.9	1373.8	1380.6	1387.3
55°	1239.8	1212.8	1196.0	1212.0	1231.4
57.5°	1088.9	1056.9	1025.7	1051.0	1074.6
60°	942.3	905.2	885.0	903.5	936.4
62.5°	803.2	776.2	756.0	770.3	798.2
65°	675.1	651.5	638.9	649.8	671.7
67.5°	558.0	541.9	529.3	538.6	555.4
70°	451.8	447.5	433.2	437.4	447.5
72.5°	354.8	354.0	341.3	344.7	350.6
75°	276.4	270.5	258.7	263.0	265.5
77.5°	195.5	198.1	187.1	189.6	189.6
80°	134.0	138.2	129.8	128.1	129.0
82.5°	85.1	85.1	84.3	83.4	80.9
85°	43.8	45.5	43.8	42.1	42.1
87.5°	16.9	16.9	16.9	16.0	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)