

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: P412446

Luminaire Tested: **22PD-70-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

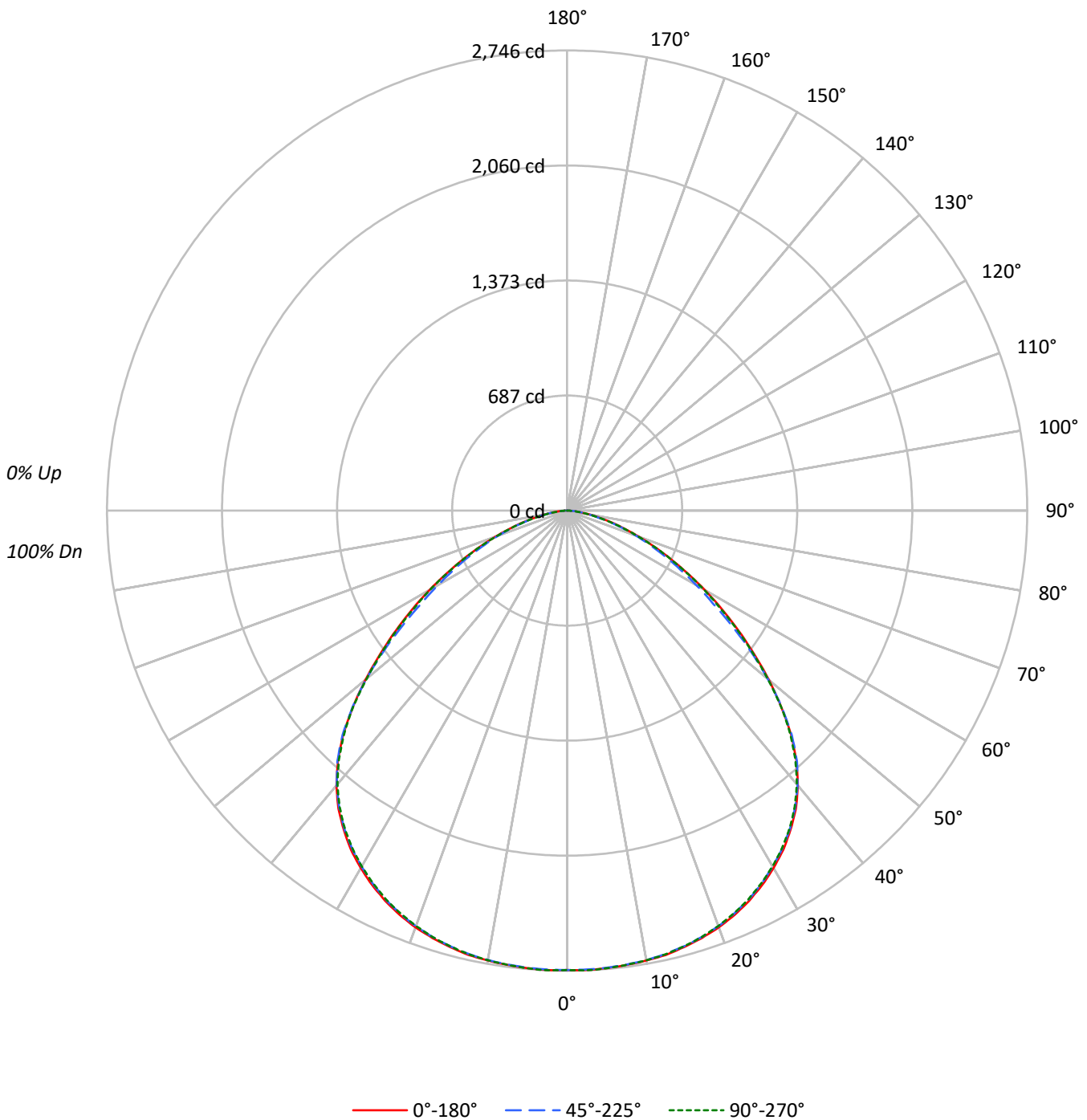
Test Method: LM-79-08  
Report Number: P412446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PB1-L850  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7199.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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): 63  
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	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°	7379	7379	7379
5°	7403	7396	7405
10°	7451	7442	7446
15°	7512	7500	7500
20°	7580	7559	7554
25°	7628	7606	7598
30°	7654	7622	7617
35°	7637	7615	7601
40°	7524	7515	7491
45°	7193	7215	7160
50°	6584	6549	6542
55°	5852	5645	5812
60°	5102	4792	5070
65°	4325	4092	4303
70°	3576	3429	3542
75°	2891	2706	2777
80°	2089	2024	2010
85°	1362	1362	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	3.6
10°-20°	760.9	10.6
20°-30°	1180.8	16.4
30°-40°	1448.0	20.1
40°-50°	1447.4	20.1
50°-60°	1096.4	15.2
60°-70°	657.6	9.1
70°-80°	289.5	4.0
80°-90°	57.4	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°	2202.6	30.6
0°-40°	3650.6	50.7
0°-60°	6194.4	86.0
0°-90°	7199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2740	2737	2738	2737	2741	261
15°	2696	2694	2692	2690	2692	762
25°	2569	2564	2562	2557	2559	1184
35°	2325	2324	2318	2316	2314	1452
45°	1890	1892	1896	1891	1882	1447
55°	1247	1220	1203	1219	1239	1118
65°	679	655	643	654	676	679
75°	278	272	260	264	267	297
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°	2742.1	2742.1	2742.1	2742.1	2742.1
2.5°	2744.6	2740.4	2741.2	2741.2	2746.3
5°	2740.4	2737.0	2737.9	2737.0	2741.2
7.5°	2734.5	2731.1	2731.9	2731.1	2733.6
10°	2726.8	2723.4	2723.4	2721.7	2725.1
12.5°	2716.7	2712.4	2710.7	2709.9	2712.4
15°	2696.3	2693.8	2692.1	2690.4	2692.1
17.5°	2674.3	2670.0	2668.3	2664.9	2668.3
20°	2647.1	2641.2	2639.5	2637.0	2637.8
22.5°	2611.5	2606.4	2603.9	2599.6	2601.3
25°	2569.1	2564.0	2561.5	2557.3	2558.9
27.5°	2519.9	2516.6	2510.6	2507.2	2508.1
30°	2463.1	2459.7	2453.0	2451.3	2451.3
32.5°	2400.4	2396.2	2390.2	2388.5	2387.7
35°	2324.9	2324.1	2318.1	2316.4	2313.9
37.5°	2242.7	2241.0	2234.2	2232.5	2230.0
40°	2141.8	2140.1	2139.2	2135.8	2132.5
42.5°	2024.8	2027.3	2029.0	2022.2	2015.4
45°	1890.0	1892.5	1895.9	1890.8	1881.5
47.5°	1732.2	1742.4	1737.3	1740.7	1731.4
50°	1572.8	1572.8	1564.4	1567.8	1562.7
52.5°	1405.8	1392.2	1382.1	1388.9	1395.6
55°	1247.3	1220.1	1203.2	1219.3	1238.8
57.5°	1095.5	1063.3	1031.9	1057.3	1081.1
60°	947.9	910.6	890.3	908.9	942.0
62.5°	808.0	780.9	760.6	775.0	803.0
65°	679.2	655.4	642.7	653.7	675.8
67.5°	561.3	545.2	532.5	541.8	558.8
70°	454.5	450.2	435.8	440.1	450.2
72.5°	357.0	356.1	343.4	346.8	352.7
75°	278.1	272.2	260.3	264.5	267.1
77.5°	196.7	199.3	188.2	190.8	190.8
80°	134.8	139.1	130.6	128.9	129.7
82.5°	85.6	85.6	84.8	83.9	81.4
85°	44.1	45.8	44.1	42.4	42.4
87.5°	17.0	17.0	17.0	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)