

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: P412476

Luminaire Tested: **22PD-85-PB1-L935**

Issue Date: 9/15/2020



**Test Information**

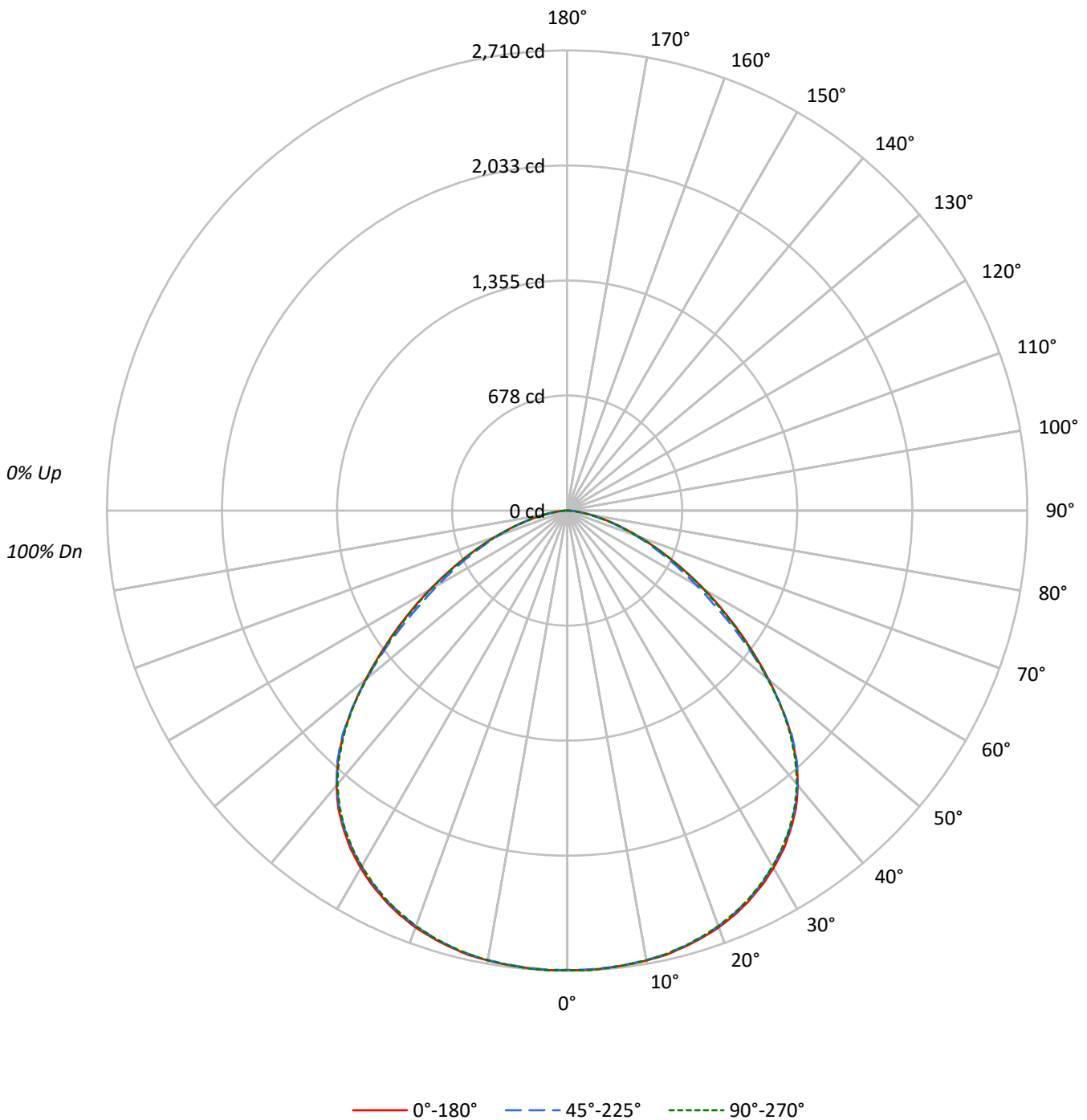
Test Method: LM-79-08  
Report Number: P412476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PB1-L935  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7104.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 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): 77.3  
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	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°	7282	7282	7282
5°	7305	7298	7307
10°	7353	7344	7348
15°	7412	7401	7401
20°	7481	7459	7454
25°	7527	7505	7498
30°	7553	7521	7516
35°	7537	7515	7501
40°	7424	7416	7392
45°	7097	7120	7066
50°	6498	6463	6455
55°	5774	5570	5735
60°	5034	4728	5003
65°	4267	4038	4246
70°	3529	3384	3496
75°	2853	2671	2741
80°	2061	1998	1984
85°	1343	1343	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.5	3.6
10°-20°	750.9	10.6
20°-30°	1165.2	16.4
30°-40°	1428.9	20.1
40°-50°	1428.3	20.1
50°-60°	1081.9	15.2
60°-70°	648.9	9.1
70°-80°	285.7	4.0
80°-90°	56.7	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°	2173.6	30.6
0°-40°	3602.4	50.7
0°-60°	6112.7	86.0
0°-90°	7104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2706	2706	2706	2706	2706	
5°	2704	2701	2702	2701	2705	258
15°	2661	2658	2656	2655	2656	752
25°	2535	2530	2528	2524	2525	1169
35°	2294	2293	2288	2286	2283	1433
45°	1865	1868	1871	1866	1857	1428
55°	1231	1204	1187	1203	1222	1103
65°	670	647	634	645	667	670
75°	274	269	257	261	264	293
85°	44	45	44	42	42	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2708.4	2704.2	2705.1	2705.1	2710.1
5°	2704.2	2700.9	2701.7	2700.9	2705.1
7.5°	2698.4	2695.0	2695.9	2695.0	2697.5
10°	2690.8	2687.5	2687.5	2685.8	2689.2
12.5°	2680.8	2676.6	2674.9	2674.1	2676.6
15°	2660.7	2658.2	2656.5	2654.9	2656.5
17.5°	2639.0	2634.8	2633.1	2629.8	2633.1
20°	2612.2	2606.3	2604.7	2602.2	2603.0
22.5°	2577.1	2572.0	2569.5	2565.3	2567.0
25°	2535.2	2530.2	2527.7	2523.5	2525.2
27.5°	2486.7	2483.3	2477.5	2474.1	2475.0
30°	2430.6	2427.3	2420.6	2418.9	2418.9
32.5°	2368.7	2364.5	2358.7	2357.0	2356.2
35°	2294.2	2293.4	2287.6	2285.9	2283.4
37.5°	2213.1	2211.4	2204.7	2203.0	2200.5
40°	2113.5	2111.8	2111.0	2107.7	2104.3
42.5°	1998.1	2000.6	2002.2	1995.5	1988.8
45°	1865.0	1867.5	1870.9	1865.9	1856.6
47.5°	1709.4	1719.4	1714.4	1717.8	1708.6
50°	1552.1	1552.1	1543.7	1547.1	1542.0
52.5°	1387.3	1373.9	1363.8	1370.5	1377.2
55°	1230.8	1204.0	1187.3	1203.2	1222.4
57.5°	1081.0	1049.2	1018.3	1043.4	1066.8
60°	935.4	898.6	878.5	896.9	929.6
62.5°	797.4	770.6	750.5	764.7	792.4
65°	670.2	646.8	634.2	645.1	666.9
67.5°	553.9	538.0	525.5	534.7	551.4
70°	448.5	444.3	430.1	434.3	444.3
72.5°	352.3	351.4	338.9	342.2	348.1
75°	274.4	268.6	256.9	261.1	263.6
77.5°	194.1	196.6	185.7	188.3	188.3
80°	133.0	137.2	128.9	127.2	128.0
82.5°	84.5	84.5	83.7	82.8	80.3
85°	43.5	45.2	43.5	41.8	41.8
87.5°	16.7	16.7	16.7	15.9	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)