

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: P413157

Luminaire Tested: **22PD-85-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

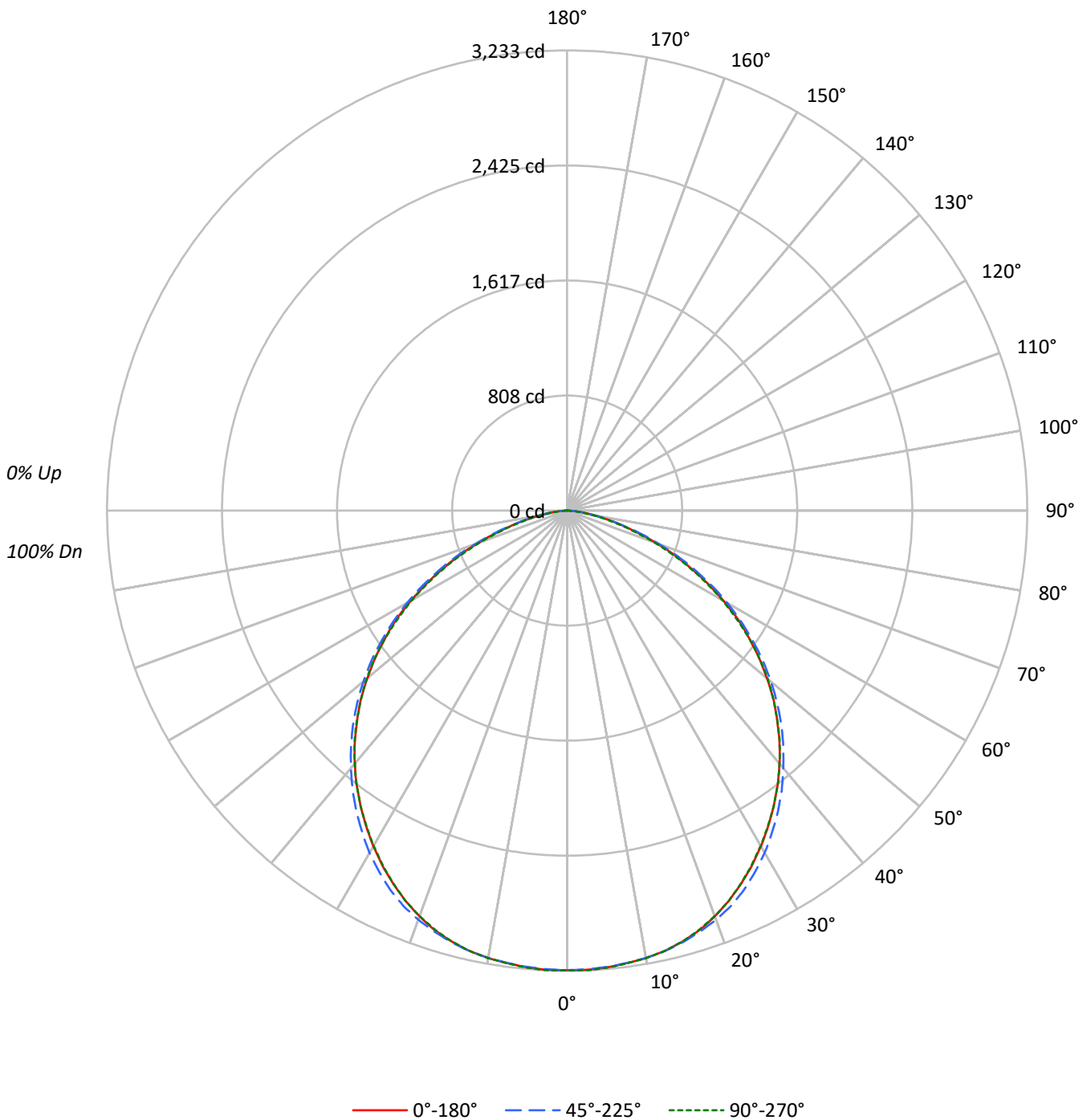
Test Method: LM-79-08  
Report Number: P413157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PC3-L850  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8675.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	8690	8690	8690
5°	8701	8695	8706
10°	8723	8720	8723
15°	8733	8744	8730
20°	8688	8759	8683
25°	8588	8728	8581
30°	8460	8626	8448
35°	8314	8479	8314
40°	8157	8302	8157
45°	7942	8099	7954
50°	7671	7821	7701
55°	7315	7459	7315
60°	6821	6993	6777
65°	6122	6337	6043
70°	5237	5423	5083
75°	4154	4271	3941
80°	2977	3088	2833
85°	1967	2029	1840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.4	3.5
10°-20°	885.0	10.2
20°-30°	1342.6	15.5
30°-40°	1603.4	18.5
40°-50°	1630.7	18.8
50°-60°	1410.5	16.3
60°-70°	970.6	11.2
70°-80°	440.5	5.1
80°-90°	85.3	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°	2534.0	29.2
0°-40°	4137.4	47.7
0°-60°	7178.6	82.8
0°-90°	8675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3229	3229	3229	3229	3229	
5°	3221	3218	3219	3219	3223	307
15°	3135	3137	3139	3134	3134	884
25°	2892	2918	2940	2913	2890	1332
35°	2531	2576	2581	2572	2531	1583
45°	2087	2125	2128	2126	2090	1609
55°	1559	1586	1590	1587	1559	1393
65°	961	988	995	987	949	954
75°	400	415	411	407	379	430
85°	64	68	66	64	60	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3229.2	3229.2	3229.2	3229.2	3229.2
2.5°	3229.2	3225.1	3226.1	3227.1	3233.3
5°	3221.0	3217.9	3218.9	3218.9	3223.0
7.5°	3207.6	3206.6	3206.6	3205.5	3208.6
10°	3192.2	3190.1	3191.2	3190.1	3192.2
12.5°	3168.6	3168.6	3169.6	3166.5	3168.6
15°	3134.7	3136.7	3138.8	3133.6	3133.6
17.5°	3091.5	3096.7	3101.8	3092.6	3087.4
20°	3034.0	3046.3	3058.7	3044.3	3032.0
22.5°	2967.3	2987.8	3006.3	2983.7	2967.3
25°	2892.3	2918.0	2939.5	2912.8	2890.2
27.5°	2811.1	2839.9	2860.4	2837.8	2807.0
30°	2722.8	2757.7	2776.2	2754.7	2718.7
32.5°	2628.3	2669.4	2680.7	2667.4	2626.3
35°	2530.7	2575.9	2581.1	2571.8	2530.7
37.5°	2429.1	2472.2	2476.3	2471.2	2429.1
40°	2322.2	2362.3	2363.3	2363.3	2322.2
42.5°	2208.2	2247.3	2247.3	2246.2	2211.3
45°	2087.0	2125.0	2128.1	2126.1	2090.1
47.5°	1966.9	1995.6	2000.8	1996.7	1964.8
50°	1832.3	1862.1	1868.3	1864.2	1839.5
52.5°	1698.8	1726.5	1732.7	1729.6	1701.9
55°	1559.1	1585.8	1589.9	1586.9	1559.1
57.5°	1424.6	1442.0	1446.1	1440.0	1405.1
60°	1267.4	1292.1	1299.3	1292.1	1259.2
62.5°	1115.4	1142.1	1148.3	1138.0	1103.1
65°	961.4	988.1	995.2	987.0	949.0
67.5°	815.5	835.0	841.2	831.9	797.0
70°	665.6	690.2	689.2	676.9	646.0
72.5°	517.7	551.5	545.4	538.2	504.3
75°	399.5	414.9	410.8	406.7	379.0
77.5°	285.5	304.0	293.7	294.8	271.2
80°	192.1	209.5	199.3	195.1	182.8
82.5°	122.2	129.4	127.4	125.3	114.0
85°	63.7	67.8	65.7	63.7	59.6
87.5°	24.7	26.7	24.7	24.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)