

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: P413156

Luminaire Tested: **22PD-85-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

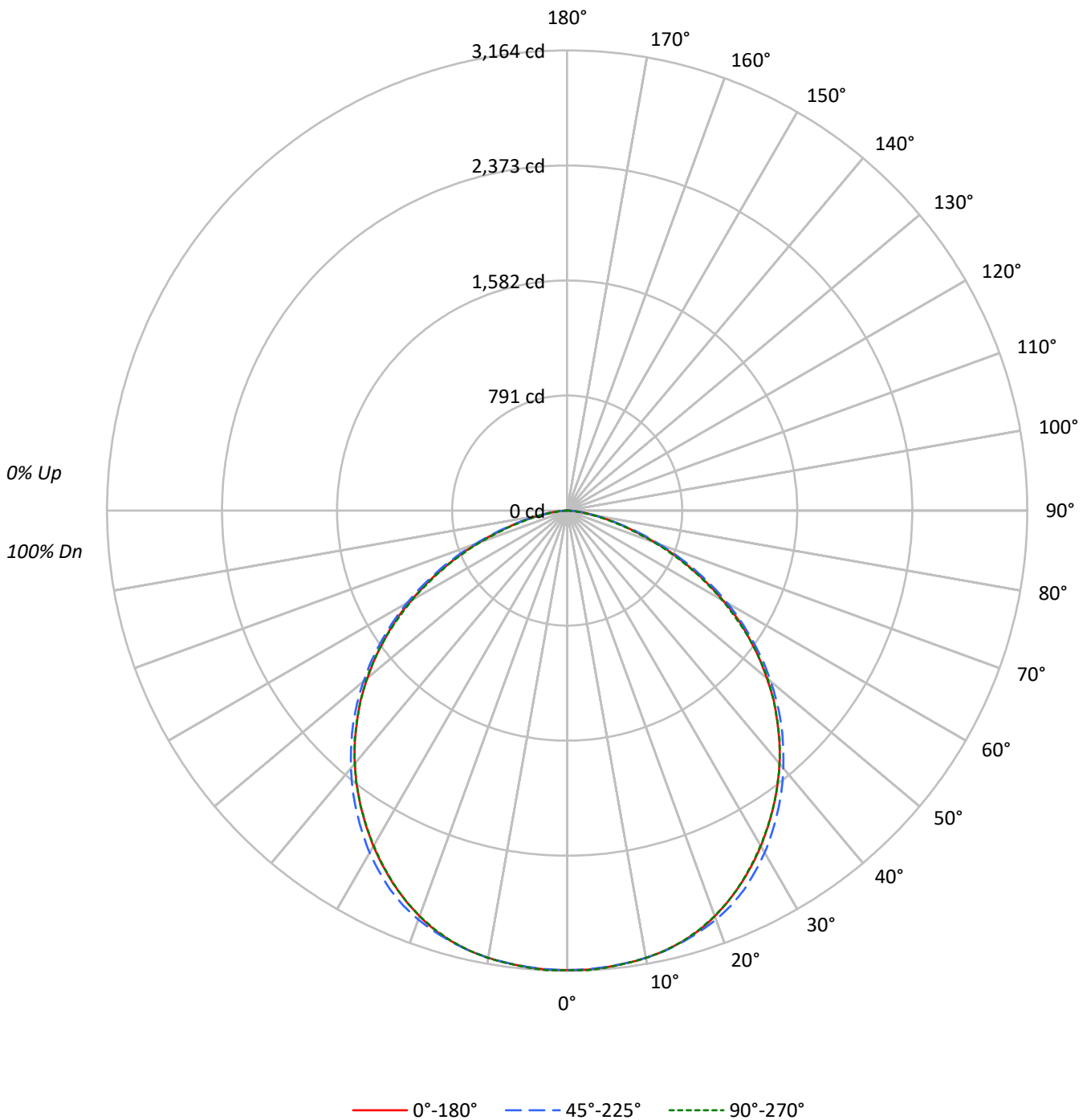
Test Method: LM-79-08  
Report Number: P413156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PC3-L840  
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8488.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 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 (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	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°	8502	8502	8502
5°	8513	8508	8518
10°	8535	8532	8535
15°	8545	8556	8542
20°	8501	8570	8495
25°	8402	8540	8397
30°	8278	8441	8266
35°	8135	8296	8135
40°	7982	8123	7982
45°	7771	7924	7783
50°	7505	7653	7535
55°	7157	7299	7157
60°	6674	6842	6631
65°	5989	6201	5913
70°	5124	5305	4973
75°	4064	4180	3855
80°	2912	3022	2772
85°	1924	1985	1800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.8	3.5
10°-20°	865.9	10.2
20°-30°	1313.7	15.5
30°-40°	1568.9	18.5
40°-50°	1595.5	18.8
50°-60°	1380.1	16.3
60°-70°	949.7	11.2
70°-80°	431.0	5.1
80°-90°	83.4	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°	2479.4	29.2
0°-40°	4048.3	47.7
0°-60°	7023.9	82.8
0°-90°	8488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3160	3160	3160	3160	3160	
5°	3152	3148	3150	3150	3154	300
15°	3067	3069	3071	3066	3066	865
25°	2830	2855	2876	2850	2828	1303
35°	2476	2520	2525	2516	2476	1549
45°	2042	2079	2082	2080	2045	1575
55°	1526	1552	1556	1553	1526	1363
65°	941	967	974	966	929	933
75°	391	406	402	398	371	420
85°	62	66	64	62	58	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3159.6	3159.6	3159.6	3159.6	3159.6
2.5°	3159.6	3155.5	3156.5	3157.6	3163.6
5°	3151.5	3148.5	3149.5	3149.5	3153.5
7.5°	3138.5	3137.5	3137.5	3136.4	3139.5
10°	3123.4	3121.4	3122.4	3121.4	3123.4
12.5°	3100.3	3100.3	3101.3	3098.3	3100.3
15°	3067.1	3069.1	3071.1	3066.1	3066.1
17.5°	3024.9	3029.9	3034.9	3025.9	3020.9
20°	2968.6	2980.7	2992.7	2978.7	2966.6
22.5°	2903.3	2923.4	2941.5	2919.4	2903.3
25°	2829.9	2855.1	2876.2	2850.0	2827.9
27.5°	2750.5	2778.7	2798.8	2776.7	2746.5
30°	2664.1	2698.3	2716.4	2695.3	2660.1
32.5°	2571.7	2611.9	2622.9	2609.9	2569.7
35°	2476.2	2520.4	2525.4	2516.4	2476.2
37.5°	2376.7	2418.9	2422.9	2417.9	2376.7
40°	2272.2	2311.4	2312.4	2312.4	2272.2
42.5°	2160.6	2198.8	2198.8	2197.8	2163.7
45°	2042.1	2079.2	2082.3	2080.2	2045.1
47.5°	1924.5	1952.6	1957.6	1953.6	1922.5
50°	1792.8	1822.0	1828.0	1824.0	1799.9
52.5°	1662.2	1689.3	1695.3	1692.3	1665.2
55°	1525.5	1551.6	1555.7	1552.6	1525.5
57.5°	1393.9	1410.9	1415.0	1408.9	1374.8
60°	1240.1	1264.2	1271.3	1264.2	1232.1
62.5°	1091.4	1117.5	1123.5	1113.5	1079.3
65°	940.6	966.8	973.8	965.8	928.6
67.5°	797.9	817.0	823.1	814.0	779.8
70°	651.2	675.3	674.3	662.3	632.1
72.5°	506.5	539.7	533.6	526.6	493.4
75°	390.9	406.0	402.0	398.0	370.8
77.5°	279.4	297.5	287.4	288.4	265.3
80°	187.9	205.0	195.0	190.9	178.9
82.5°	119.6	126.6	124.6	122.6	111.5
85°	62.3	66.3	64.3	62.3	58.3
87.5°	24.1	26.1	24.1	24.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)