

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: P412445

Luminaire Tested: **22PD-70-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

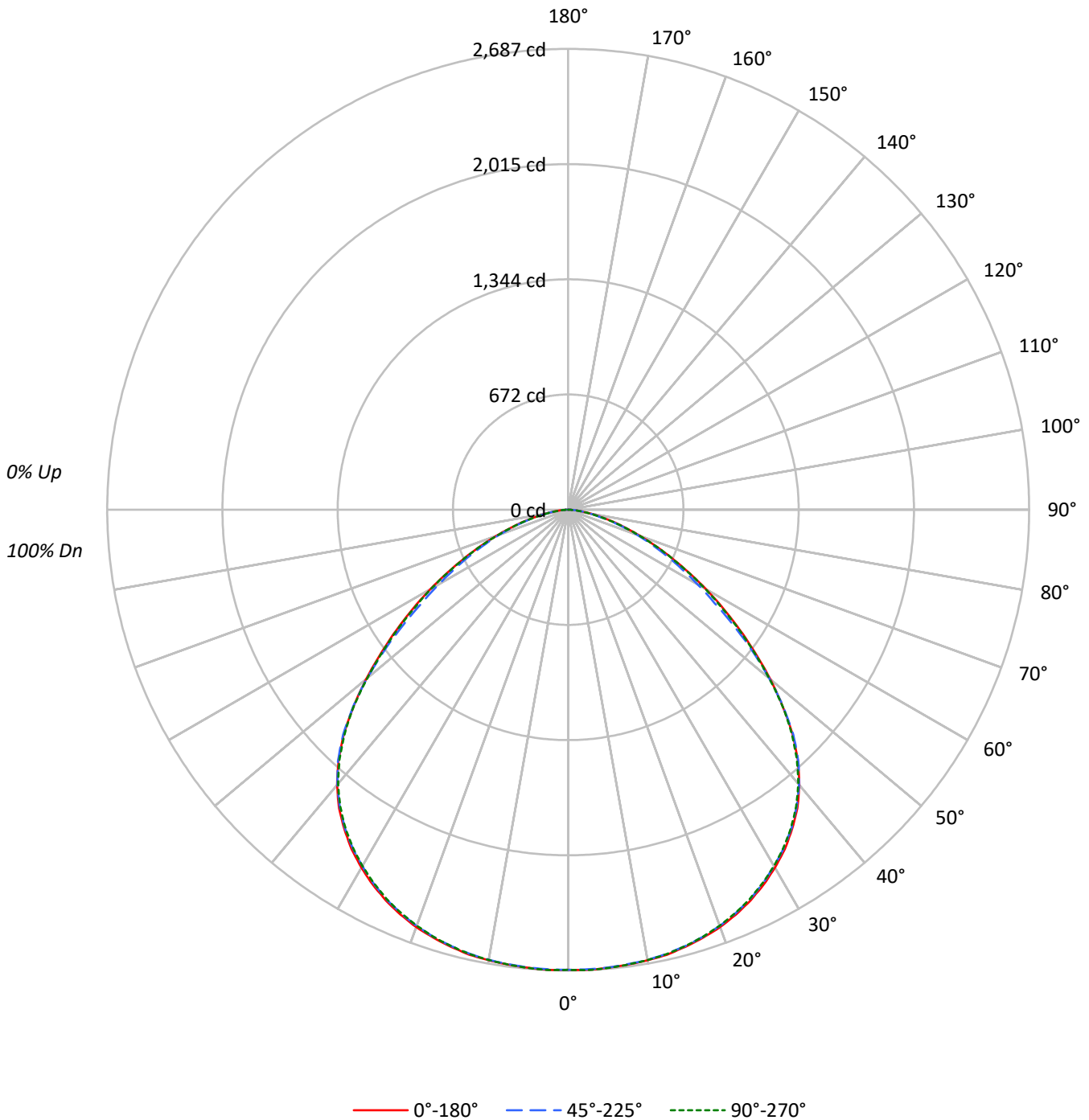
Test Method: LM-79-08  
Report Number: P412445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PB1-L840  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7044.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 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°	7220	7220	7220
5°	7243	7236	7245
10°	7291	7282	7286
15°	7350	7338	7338
20°	7417	7396	7391
25°	7464	7442	7434
30°	7489	7458	7453
35°	7473	7451	7438
40°	7362	7353	7330
45°	7038	7060	7006
50°	6443	6408	6401
55°	5726	5523	5687
60°	4992	4688	4961
65°	4231	4004	4210
70°	3499	3355	3466
75°	2829	2648	2717
80°	2044	1980	1967
85°	1331	1331	1281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.3	3.6
10°-20°	744.6	10.6
20°-30°	1155.3	16.4
30°-40°	1416.8	20.1
40°-50°	1416.3	20.1
50°-60°	1072.8	15.2
60°-70°	643.4	9.1
70°-80°	283.3	4.0
80°-90°	56.2	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°	2155.2	30.6
0°-40°	3572.0	50.7
0°-60°	6061.1	86.0
0°-90°	7044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2681	2678	2679	2678	2682	256
15°	2638	2636	2634	2632	2634	746
25°	2514	2509	2506	2502	2504	1159
35°	2275	2274	2268	2267	2264	1421
45°	1849	1852	1855	1850	1841	1416
55°	1220	1194	1177	1193	1212	1094
65°	664	641	629	640	661	665
75°	272	266	255	259	261	290
85°	43	45	43	42	42	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2683.1	2683.1	2683.1	2683.1	2683.1
2.5°	2685.5	2681.4	2682.2	2682.2	2687.2
5°	2681.4	2678.1	2678.9	2678.1	2682.2
7.5°	2675.6	2672.3	2673.1	2672.3	2674.8
10°	2668.1	2664.8	2664.8	2663.1	2666.5
12.5°	2658.2	2654.0	2652.4	2651.5	2654.0
15°	2638.3	2635.8	2634.1	2632.4	2634.1
17.5°	2616.7	2612.5	2610.9	2607.6	2610.9
20°	2590.1	2584.3	2582.7	2580.2	2581.0
22.5°	2555.3	2550.3	2547.8	2543.7	2545.3
25°	2513.8	2508.8	2506.3	2502.2	2503.9
27.5°	2465.7	2462.4	2456.6	2453.2	2454.1
30°	2410.1	2406.8	2400.1	2398.5	2398.5
32.5°	2348.7	2344.6	2338.8	2337.1	2336.3
35°	2274.9	2274.0	2268.2	2266.6	2264.1
37.5°	2194.4	2192.7	2186.1	2184.4	2182.0
40°	2095.7	2094.0	2093.2	2089.9	2086.5
42.5°	1981.2	1983.7	1985.3	1978.7	1972.1
45°	1849.3	1851.8	1855.1	1850.1	1841.0
47.5°	1695.0	1704.9	1699.9	1703.2	1694.1
50°	1539.0	1539.0	1530.7	1534.0	1529.0
52.5°	1375.5	1362.3	1352.3	1358.9	1365.6
55°	1220.4	1193.9	1177.3	1193.0	1212.1
57.5°	1071.9	1040.4	1009.7	1034.6	1057.8
60°	927.5	891.0	871.1	889.4	921.7
62.5°	790.6	764.1	744.2	758.3	785.7
65°	664.5	641.3	628.9	639.7	661.2
67.5°	549.2	533.5	521.0	530.1	546.7
70°	444.7	440.5	426.4	430.6	440.5
72.5°	349.3	348.4	336.0	339.3	345.1
75°	272.1	266.3	254.7	258.8	261.3
77.5°	192.5	195.0	184.2	186.7	186.7
80°	131.9	136.1	127.8	126.1	126.9
82.5°	83.8	83.8	83.0	82.1	79.6
85°	43.1	44.8	43.1	41.5	41.5
87.5°	16.6	16.6	16.6	15.8	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)