

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: P412444

Luminaire Tested: **22PD-70-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

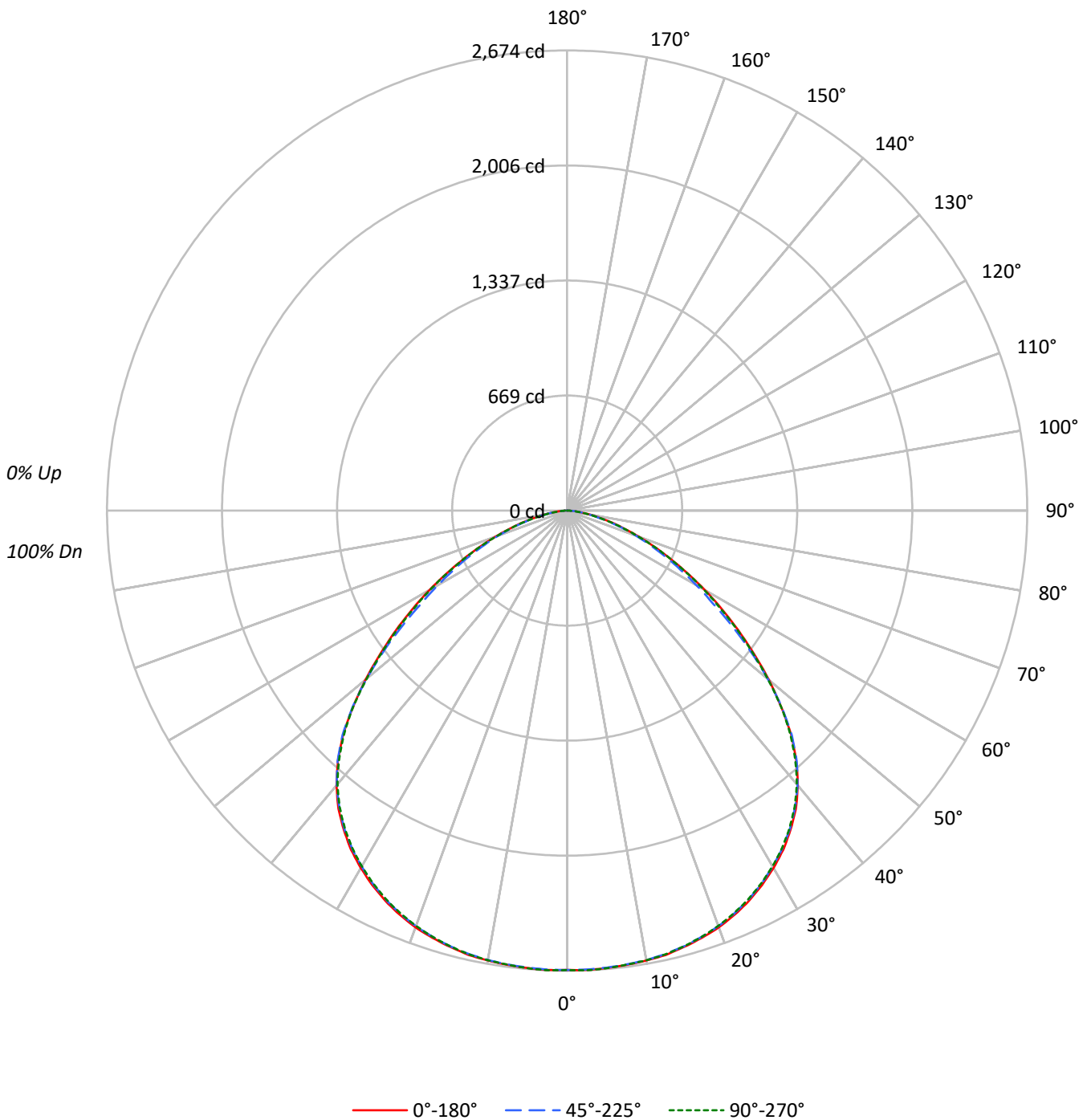
Test Method: LM-79-08  
Report Number: P412444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PB1-L835  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7009.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 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°	7184	7184	7184
5°	7207	7200	7209
10°	7254	7245	7250
15°	7313	7302	7302
20°	7381	7359	7355
25°	7427	7405	7397
30°	7452	7421	7416
35°	7436	7414	7401
40°	7325	7317	7293
45°	7003	7025	6971
50°	6411	6376	6369
55°	5697	5496	5659
60°	4967	4665	4936
65°	4210	3984	4189
70°	3482	3338	3448
75°	2816	2635	2703
80°	2035	1970	1957
85°	1325	1325	1275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	3.6
10°-20°	740.9	10.6
20°-30°	1149.6	16.4
30°-40°	1409.8	20.1
40°-50°	1409.2	20.1
50°-60°	1067.5	15.2
60°-70°	640.2	9.1
70°-80°	281.9	4.0
80°-90°	55.9	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°	2144.5	30.6
0°-40°	3554.3	50.7
0°-60°	6031.0	86.0
0°-90°	7009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7009.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2670	2670	2670	2670	2670	
5°	2668	2665	2666	2665	2669	254
15°	2625	2623	2621	2619	2621	742
25°	2501	2496	2494	2490	2491	1153
35°	2264	2263	2257	2255	2253	1414
45°	1840	1843	1846	1841	1832	1409
55°	1214	1188	1171	1187	1206	1089
65°	661	638	626	636	658	661
75°	271	265	253	258	260	289
85°	43	45	43	41	41	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2669.7	2669.7	2669.7	2669.7	2669.7
2.5°	2672.2	2668.1	2668.9	2668.9	2673.8
5°	2668.1	2664.8	2665.6	2664.8	2668.9
7.5°	2662.3	2659.0	2659.8	2659.0	2661.5
10°	2654.9	2651.6	2651.6	2649.9	2653.2
12.5°	2645.0	2640.8	2639.2	2638.4	2640.8
15°	2625.1	2622.7	2621.0	2619.4	2621.0
17.5°	2603.7	2599.6	2597.9	2594.6	2597.9
20°	2577.3	2571.5	2569.8	2567.4	2568.2
22.5°	2542.6	2537.6	2535.2	2531.0	2532.7
25°	2501.3	2496.4	2493.9	2489.8	2491.4
27.5°	2453.4	2450.1	2444.4	2441.1	2441.9
30°	2398.1	2394.8	2388.2	2386.6	2386.6
32.5°	2337.0	2332.9	2327.1	2325.5	2324.7
35°	2263.6	2262.7	2257.0	2255.3	2252.8
37.5°	2183.5	2181.8	2175.2	2173.6	2171.1
40°	2085.3	2083.6	2082.8	2079.5	2076.2
42.5°	1971.3	1973.8	1975.5	1968.9	1962.3
45°	1840.1	1842.6	1845.9	1840.9	1831.8
47.5°	1686.5	1696.4	1691.5	1694.8	1685.7
50°	1531.3	1531.3	1523.1	1526.4	1521.4
52.5°	1368.7	1355.5	1345.6	1352.2	1358.8
55°	1214.3	1187.9	1171.4	1187.1	1206.1
57.5°	1066.6	1035.2	1004.7	1029.4	1052.5
60°	922.9	886.6	866.8	885.0	917.1
62.5°	786.7	760.3	740.5	754.5	781.8
65°	661.2	638.1	625.7	636.5	657.9
67.5°	546.5	530.8	518.4	527.5	544.0
70°	442.5	438.3	424.3	428.4	438.3
72.5°	347.5	346.7	334.3	337.6	343.4
75°	270.8	265.0	253.4	257.6	260.0
77.5°	191.5	194.0	183.3	185.7	185.7
80°	131.3	135.4	127.1	125.5	126.3
82.5°	83.4	83.4	82.6	81.7	79.2
85°	42.9	44.6	42.9	41.3	41.3
87.5°	16.5	16.5	16.5	15.7	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)