

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: P412354

Luminaire Tested: **22PD-20-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

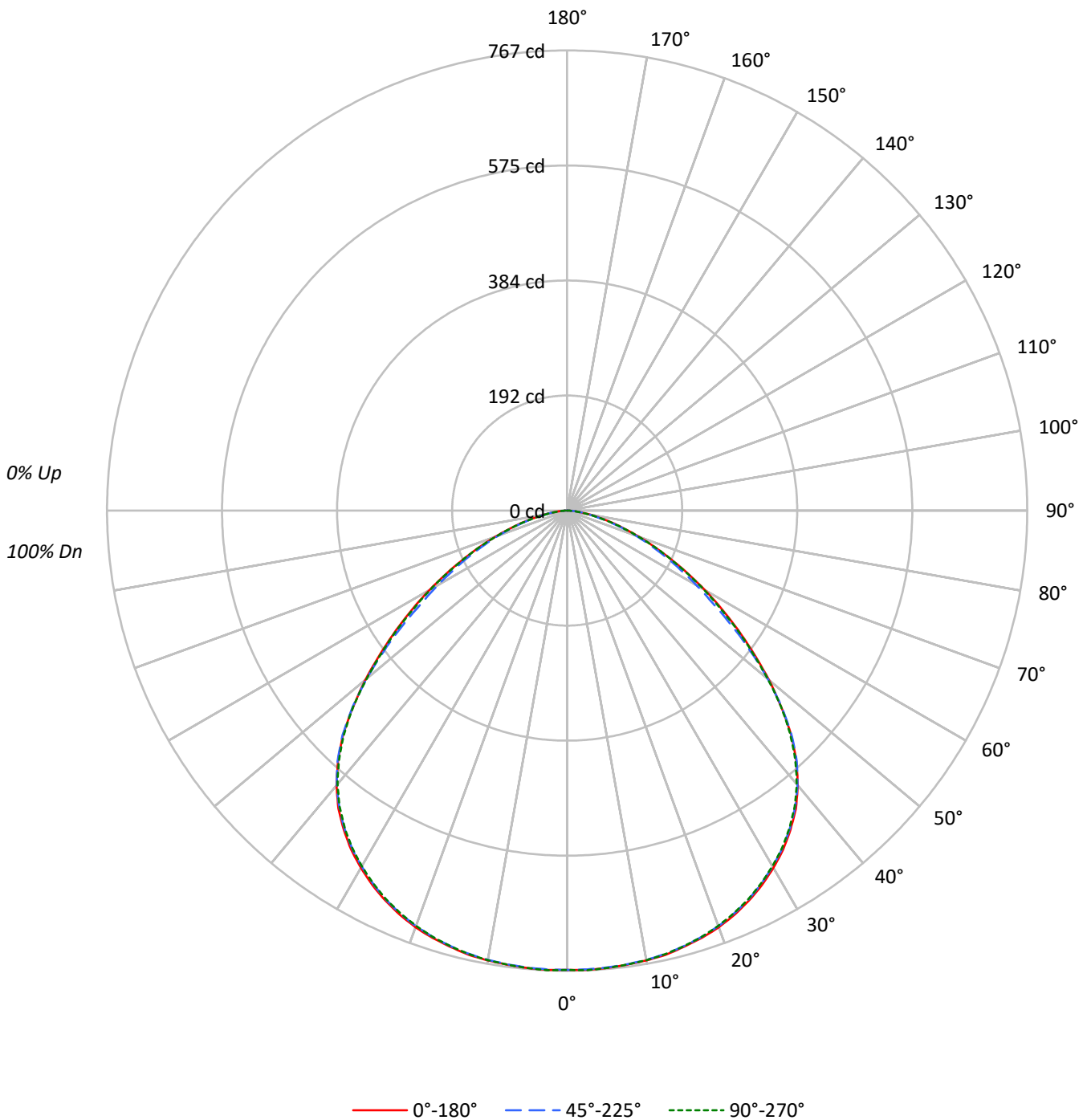
Test Method: LM-79-08  
Report Number: P412354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PB1-L835  
Description: 2000 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: 2010.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 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): 16.9  
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°	2060	2060	2060
5°	2067	2065	2068
10°	2080	2078	2079
15°	2097	2094	2094
20°	2117	2111	2109
25°	2130	2124	2121
30°	2137	2128	2127
35°	2132	2126	2122
40°	2101	2098	2092
45°	2008	2014	1999
50°	1838	1829	1827
55°	1634	1576	1623
60°	1425	1338	1415
65°	1207	1142	1202
70°	998	958	989
75°	807	756	776
80°	583	566	561
85°	380	380	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.6
10°-20°	212.5	10.6
20°-30°	329.7	16.4
30°-40°	404.3	20.1
40°-50°	404.1	20.1
50°-60°	306.1	15.2
60°-70°	183.6	9.1
70°-80°	80.8	4.0
80°-90°	16.0	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°	615.0	30.6
0°-40°	1019.3	50.7
0°-60°	1729.5	86.0
0°-90°	2010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	765	764	764	764	765	73
15°	753	752	752	751	752	213
25°	717	716	715	714	714	331
35°	649	649	647	647	646	405
45°	528	528	529	528	525	404
55°	348	341	336	340	346	312
65°	190	183	179	182	189	190
75°	78	76	73	74	75	83
85°	12	13	12	12	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.6	765.6	765.6	765.6	765.6
2.5°	766.3	765.1	765.4	765.4	766.8
5°	765.1	764.2	764.4	764.2	765.4
7.5°	763.5	762.5	762.8	762.5	763.2
10°	761.3	760.4	760.4	759.9	760.9
12.5°	758.5	757.3	756.8	756.6	757.3
15°	752.8	752.1	751.6	751.2	751.6
17.5°	746.7	745.5	745.0	744.1	745.0
20°	739.1	737.4	737.0	736.3	736.5
22.5°	729.1	727.7	727.0	725.8	726.3
25°	717.3	715.9	715.2	714.0	714.5
27.5°	703.6	702.6	701.0	700.0	700.3
30°	687.7	686.8	684.9	684.4	684.4
32.5°	670.2	669.0	667.4	666.9	666.7
35°	649.1	648.9	647.2	646.8	646.1
37.5°	626.2	625.7	623.8	623.3	622.6
40°	598.0	597.5	597.3	596.3	595.4
42.5°	565.3	566.0	566.5	564.6	562.7
45°	527.7	528.4	529.3	527.9	525.3
47.5°	483.7	486.5	485.1	486.0	483.4
50°	439.1	439.1	436.8	437.7	436.3
52.5°	392.5	388.7	385.9	387.8	389.7
55°	348.2	340.7	335.9	340.4	345.9
57.5°	305.9	296.9	288.1	295.2	301.8
60°	264.7	254.3	248.6	253.8	263.0
62.5°	225.6	218.0	212.4	216.4	224.2
65°	189.6	183.0	179.4	182.5	188.7
67.5°	156.7	152.2	148.7	151.3	156.0
70°	126.9	125.7	121.7	122.9	125.7
72.5°	99.7	99.4	95.9	96.8	98.5
75°	77.6	76.0	72.7	73.9	74.6
77.5°	54.9	55.6	52.6	53.3	53.3
80°	37.6	38.8	36.5	36.0	36.2
82.5°	23.9	23.9	23.7	23.4	22.7
85°	12.3	12.8	12.3	11.8	11.8
87.5°	4.7	4.7	4.7	4.5	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)