

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: P412353

Luminaire Tested: **22PD-20-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

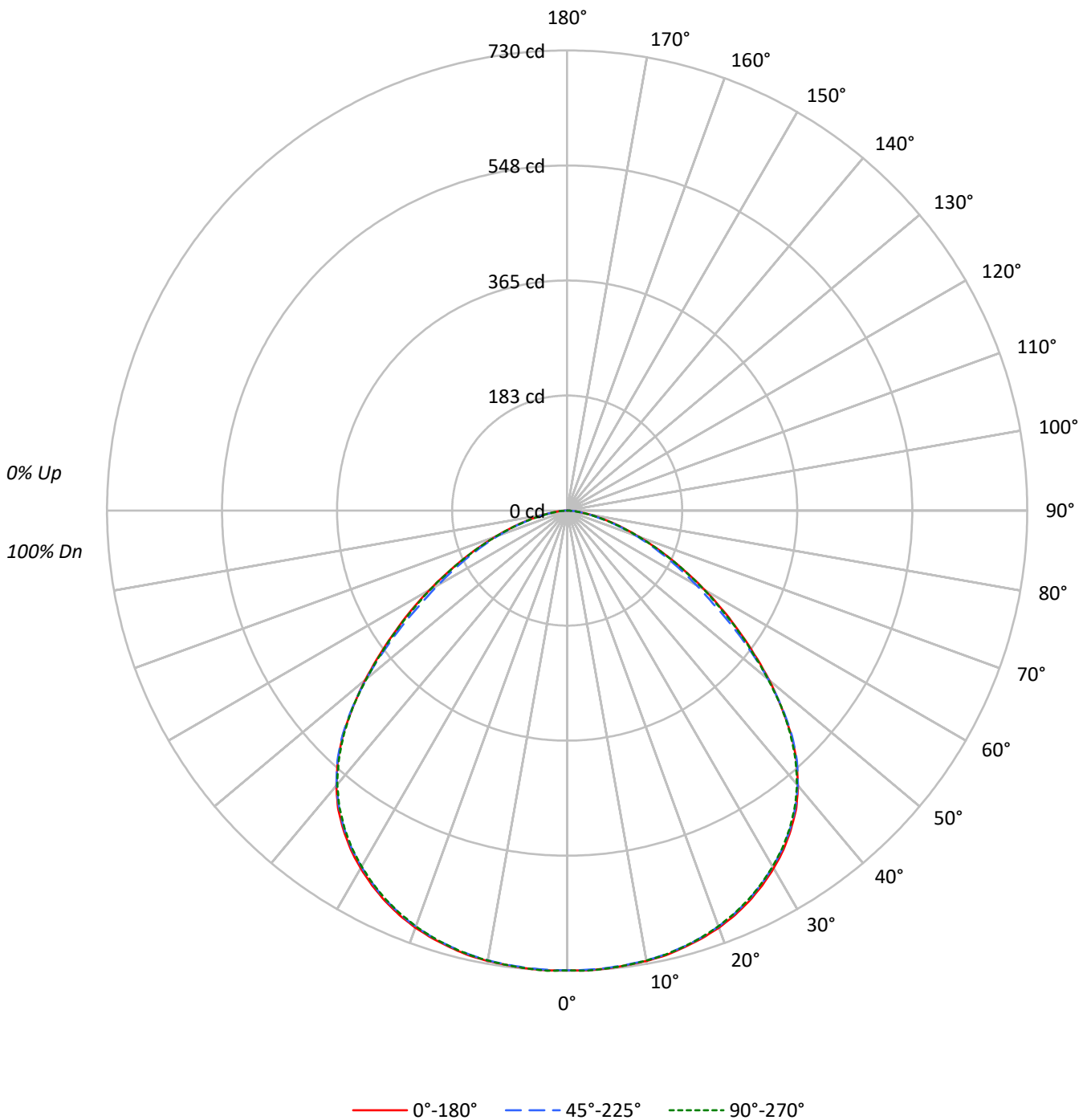
Test Method: LM-79-08  
Report Number: P412353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PB1-L830  
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1915.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 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): 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°	1963	1963	1963
5°	1969	1967	1970
10°	1982	1980	1981
15°	1998	1995	1995
20°	2017	2011	2009
25°	2029	2023	2021
30°	2036	2027	2026
35°	2032	2026	2022
40°	2001	1999	1993
45°	1913	1919	1905
50°	1752	1742	1740
55°	1557	1502	1546
60°	1357	1274	1349
65°	1151	1089	1145
70°	951	912	943
75°	769	719	738
80°	556	538	535
85°	361	361	349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.6
10°-20°	202.4	10.6
20°-30°	314.1	16.4
30°-40°	385.2	20.1
40°-50°	385.0	20.1
50°-60°	291.7	15.2
60°-70°	174.9	9.1
70°-80°	77.0	4.0
80°-90°	15.3	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°	585.9	30.6
0°-40°	971.1	50.7
0°-60°	1647.8	86.0
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	729	728	728	728	729	69
15°	717	717	716	716	716	203
25°	683	682	681	680	681	315
35°	618	618	617	616	616	386
45°	503	503	504	503	500	385
55°	332	325	320	324	330	297
65°	181	174	171	174	180	181
75°	74	72	69	70	71	79
85°	12	12	12	11	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	729.4	729.4	729.4	729.4	729.4
2.5°	730.1	729.0	729.2	729.2	730.5
5°	729.0	728.1	728.3	728.1	729.2
7.5°	727.4	726.5	726.7	726.5	727.2
10°	725.4	724.5	724.5	724.0	724.9
12.5°	722.7	721.5	721.1	720.9	721.5
15°	717.2	716.6	716.1	715.7	716.1
17.5°	711.4	710.2	709.8	708.9	709.8
20°	704.2	702.6	702.1	701.5	701.7
22.5°	694.7	693.3	692.7	691.5	692.0
25°	683.4	682.1	681.4	680.3	680.7
27.5°	670.3	669.4	667.8	666.9	667.2
30°	655.2	654.3	652.5	652.1	652.1
32.5°	638.5	637.4	635.8	635.4	635.1
35°	618.5	618.2	616.6	616.2	615.5
37.5°	596.6	596.1	594.3	593.9	593.2
40°	569.7	569.3	569.1	568.2	567.3
42.5°	538.6	539.3	539.7	537.9	536.1
45°	502.7	503.4	504.3	503.0	500.5
47.5°	460.8	463.5	462.1	463.0	460.6
50°	418.4	418.4	416.1	417.0	415.7
52.5°	374.0	370.3	367.6	369.4	371.3
55°	331.8	324.6	320.1	324.3	329.5
57.5°	291.4	282.8	274.5	281.3	287.6
60°	252.2	242.2	236.8	241.8	250.6
62.5°	214.9	207.7	202.3	206.2	213.6
65°	180.7	174.3	171.0	173.9	179.8
67.5°	149.3	145.0	141.6	144.1	148.6
70°	120.9	119.8	115.9	117.1	119.8
72.5°	95.0	94.7	91.3	92.2	93.8
75°	74.0	72.4	69.2	70.4	71.0
77.5°	52.3	53.0	50.1	50.7	50.7
80°	35.9	37.0	34.7	34.3	34.5
82.5°	22.8	22.8	22.6	22.3	21.7
85°	11.7	12.2	11.7	11.3	11.3
87.5°	4.5	4.5	4.5	4.3	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)