

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: P413042

Luminaire Tested: **22PD-20-PC3-L930**

Issue Date: 9/15/2020



**Test Information**

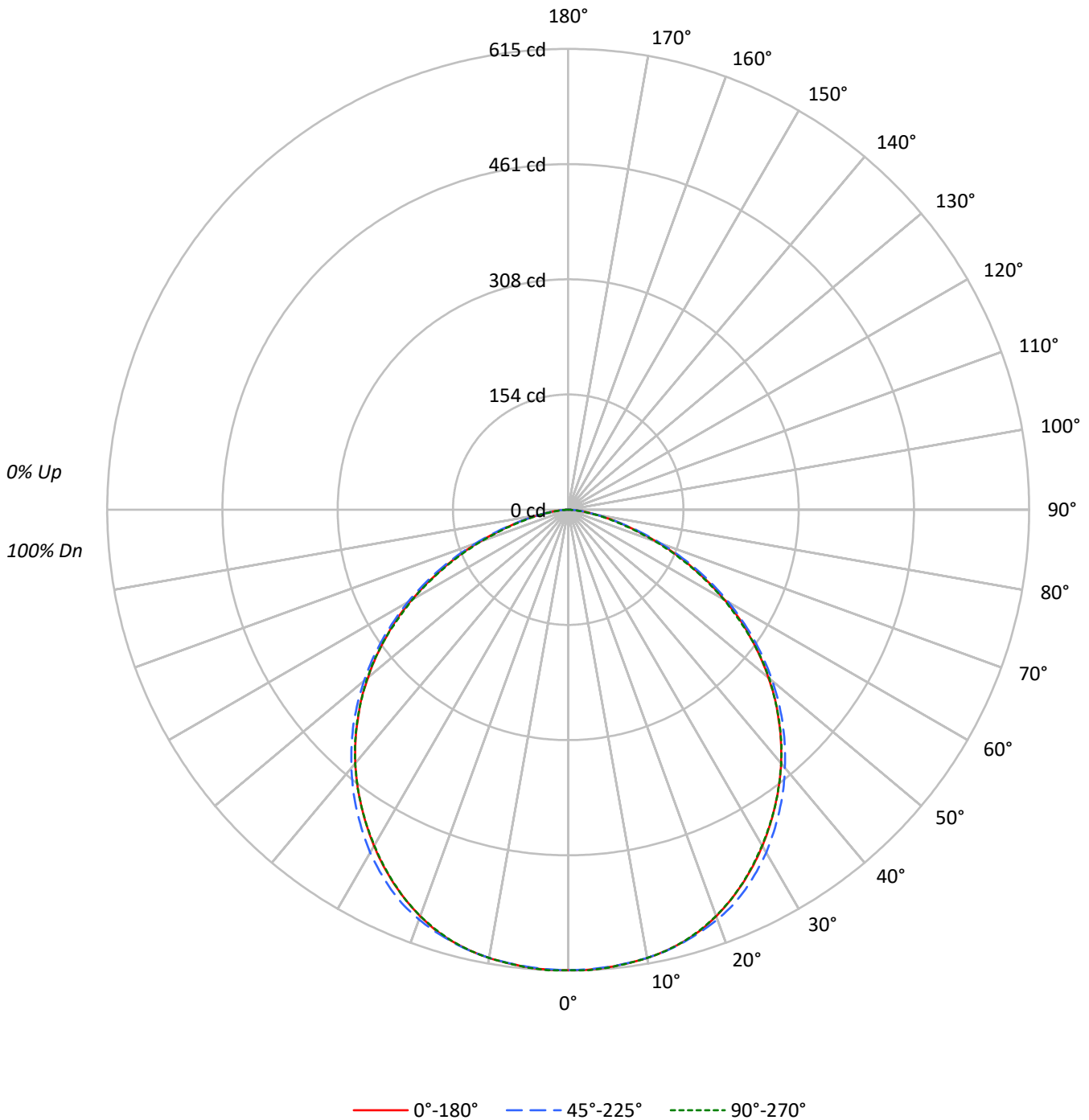
Test Method: LM-79-08  
Report Number: P413042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PC3-L930  
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1651.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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): 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	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°	1654	1654	1654
5°	1656	1655	1657
10°	1660	1659	1660
15°	1662	1664	1662
20°	1653	1667	1652
25°	1635	1661	1633
30°	1610	1642	1608
35°	1582	1614	1582
40°	1553	1580	1553
45°	1512	1541	1514
50°	1460	1489	1466
55°	1392	1420	1392
60°	1298	1331	1290
65°	1165	1206	1150
70°	997	1032	968
75°	790	813	750
80°	567	587	539
85°	374	386	349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	3.5
10°-20°	168.4	10.2
20°-30°	255.5	15.5
30°-40°	305.2	18.5
40°-50°	310.4	18.8
50°-60°	268.4	16.3
60°-70°	184.7	11.2
70°-80°	83.8	5.1
80°-90°	16.2	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°	482.3	29.2
0°-40°	787.4	47.7
0°-60°	1366.2	82.8
0°-90°	1651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	613	612	613	613	613	58
15°	597	597	597	596	596	168
25°	550	555	559	554	550	254
35°	482	490	491	490	482	301
45°	397	404	405	405	398	306
55°	297	302	303	302	297	265
65°	183	188	189	188	181	182
75°	76	79	78	77	72	82
85°	12	13	12	12	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	614.6	614.6	614.6	614.6	614.6
2.5°	614.6	613.8	614.0	614.2	615.3
5°	613.0	612.4	612.6	612.6	613.4
7.5°	610.5	610.3	610.3	610.1	610.7
10°	607.5	607.1	607.3	607.1	607.5
12.5°	603.0	603.0	603.2	602.6	603.0
15°	596.6	597.0	597.4	596.4	596.4
17.5°	588.4	589.3	590.3	588.6	587.6
20°	577.4	579.8	582.1	579.4	577.0
22.5°	564.7	568.6	572.1	567.8	564.7
25°	550.5	555.3	559.4	554.4	550.1
27.5°	535.0	540.5	544.4	540.1	534.2
30°	518.2	524.8	528.4	524.3	517.4
32.5°	500.2	508.0	510.2	507.6	499.8
35°	481.6	490.2	491.2	489.5	481.6
37.5°	462.3	470.5	471.3	470.3	462.3
40°	442.0	449.6	449.8	449.8	442.0
42.5°	420.3	427.7	427.7	427.5	420.9
45°	397.2	404.4	405.0	404.6	397.8
47.5°	374.3	379.8	380.8	380.0	373.9
50°	348.7	354.4	355.6	354.8	350.1
52.5°	323.3	328.6	329.8	329.2	323.9
55°	296.7	301.8	302.6	302.0	296.7
57.5°	271.1	274.4	275.2	274.1	267.4
60°	241.2	245.9	247.3	245.9	239.6
62.5°	212.3	217.4	218.5	216.6	209.9
65°	183.0	188.0	189.4	187.8	180.6
67.5°	155.2	158.9	160.1	158.3	151.7
70°	126.7	131.4	131.2	128.8	123.0
72.5°	98.5	105.0	103.8	102.4	96.0
75°	76.0	79.0	78.2	77.4	72.1
77.5°	54.3	57.9	55.9	56.1	51.6
80°	36.6	39.9	37.9	37.1	34.8
82.5°	23.3	24.6	24.2	23.8	21.7
85°	12.1	12.9	12.5	12.1	11.3
87.5°	4.7	5.1	4.7	4.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)