

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: P412375

Luminaire Tested: **22PD-30-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

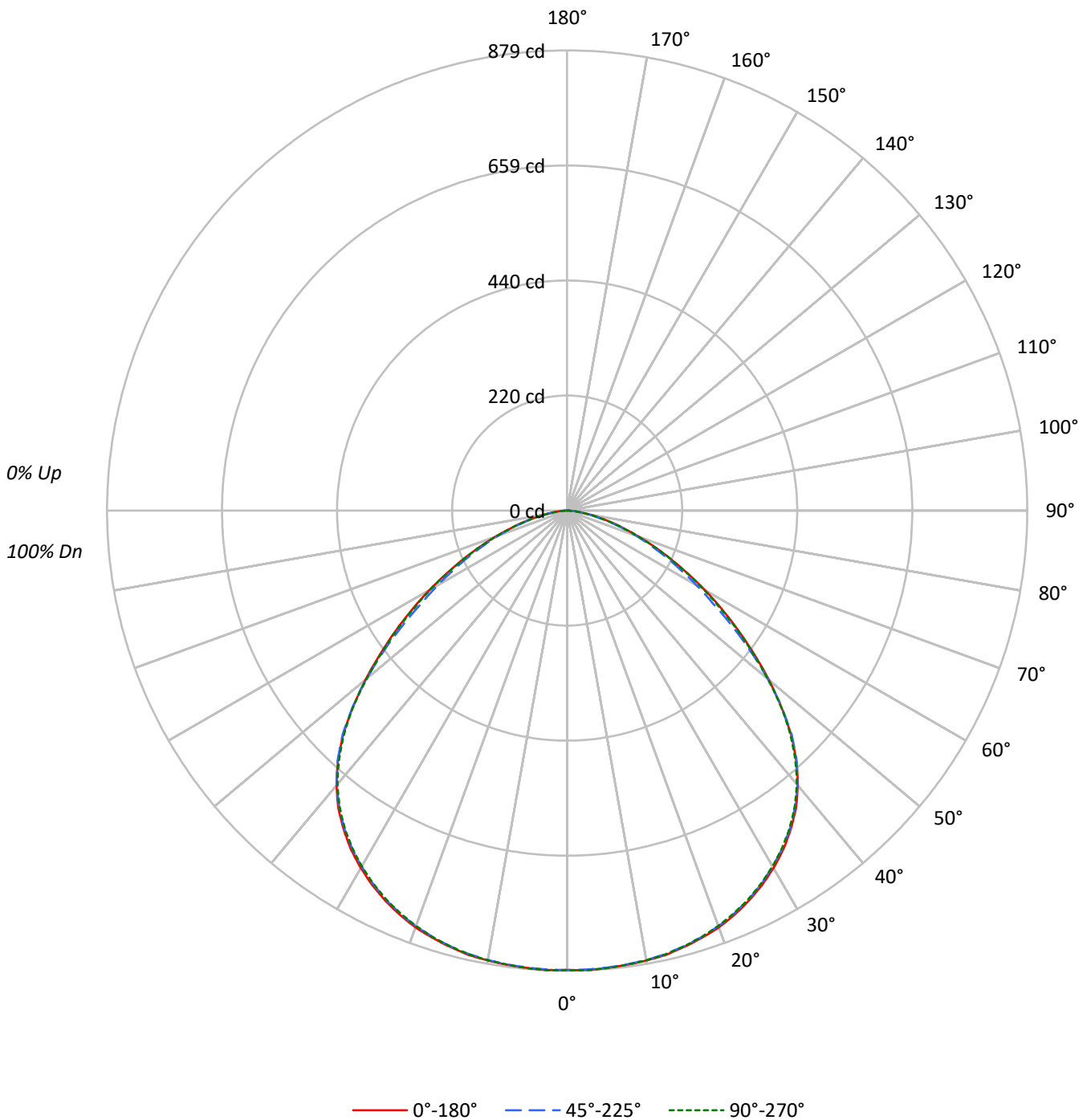
Test Method: LM-79-08  
Report Number: P412375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-30-PB1-L927  
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2304.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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): 24.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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					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°	2362	2362	2362
5°	2369	2367	2370
10°	2385	2382	2383
15°	2404	2400	2400
20°	2426	2419	2418
25°	2441	2434	2432
30°	2449	2440	2438
35°	2444	2437	2433
40°	2408	2405	2398
45°	2302	2309	2292
50°	2107	2096	2094
55°	1873	1807	1860
60°	1633	1533	1623
65°	1384	1310	1377
70°	1145	1098	1134
75°	925	866	889
80°	668	648	643
85°	435	435	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	3.6
10°-20°	243.5	10.6
20°-30°	377.9	16.4
30°-40°	463.4	20.1
40°-50°	463.2	20.1
50°-60°	350.9	15.2
60°-70°	210.4	9.1
70°-80°	92.7	4.0
80°-90°	18.4	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°	704.9	30.6
0°-40°	1168.4	50.7
0°-60°	1982.5	86.0
0°-90°	2304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	877	876	876	876	877	84
15°	863	862	862	861	862	244
25°	822	821	820	818	819	379
35°	744	744	742	741	741	465
45°	605	606	607	605	602	463
55°	399	390	385	390	396	358
65°	217	210	206	209	216	217
75°	89	87	83	85	86	95
85°	14	15	14	14	14	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	877.6	877.6	877.6	877.6	877.6
2.5°	878.4	877.0	877.3	877.3	878.9
5°	877.0	876.0	876.2	876.0	877.3
7.5°	875.1	874.1	874.3	874.1	874.9
10°	872.7	871.6	871.6	871.1	872.2
12.5°	869.5	868.1	867.6	867.3	868.1
15°	862.9	862.1	861.6	861.0	861.6
17.5°	855.9	854.5	854.0	852.9	854.0
20°	847.2	845.3	844.8	843.9	844.2
22.5°	835.8	834.2	833.4	832.0	832.5
25°	822.2	820.6	819.8	818.4	819.0
27.5°	806.5	805.4	803.5	802.4	802.7
30°	788.3	787.2	785.1	784.5	784.5
32.5°	768.2	766.9	765.0	764.4	764.2
35°	744.1	743.8	741.9	741.4	740.6
37.5°	717.8	717.2	715.0	714.5	713.7
40°	685.5	684.9	684.7	683.6	682.5
42.5°	648.0	648.8	649.4	647.2	645.0
45°	604.9	605.7	606.8	605.1	602.2
47.5°	554.4	557.7	556.0	557.1	554.1
50°	503.4	503.4	500.7	501.8	500.1
52.5°	449.9	445.6	442.3	444.5	446.7
55°	399.2	390.5	385.1	390.2	396.5
57.5°	350.6	340.3	330.3	338.4	346.0
60°	303.4	291.4	284.9	290.9	301.5
62.5°	258.6	249.9	243.4	248.0	257.0
65°	217.4	209.8	205.7	209.2	216.3
67.5°	179.6	174.5	170.4	173.4	178.8
70°	145.5	144.1	139.5	140.8	144.1
72.5°	114.2	114.0	109.9	111.0	112.9
75°	89.0	87.1	83.3	84.7	85.5
77.5°	63.0	63.8	60.2	61.1	61.1
80°	43.1	44.5	41.8	41.2	41.5
82.5°	27.4	27.4	27.1	26.9	26.1
85°	14.1	14.7	14.1	13.6	13.6
87.5°	5.4	5.4	5.4	5.2	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)