

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: P413058

Luminaire Tested: **22PD-30-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

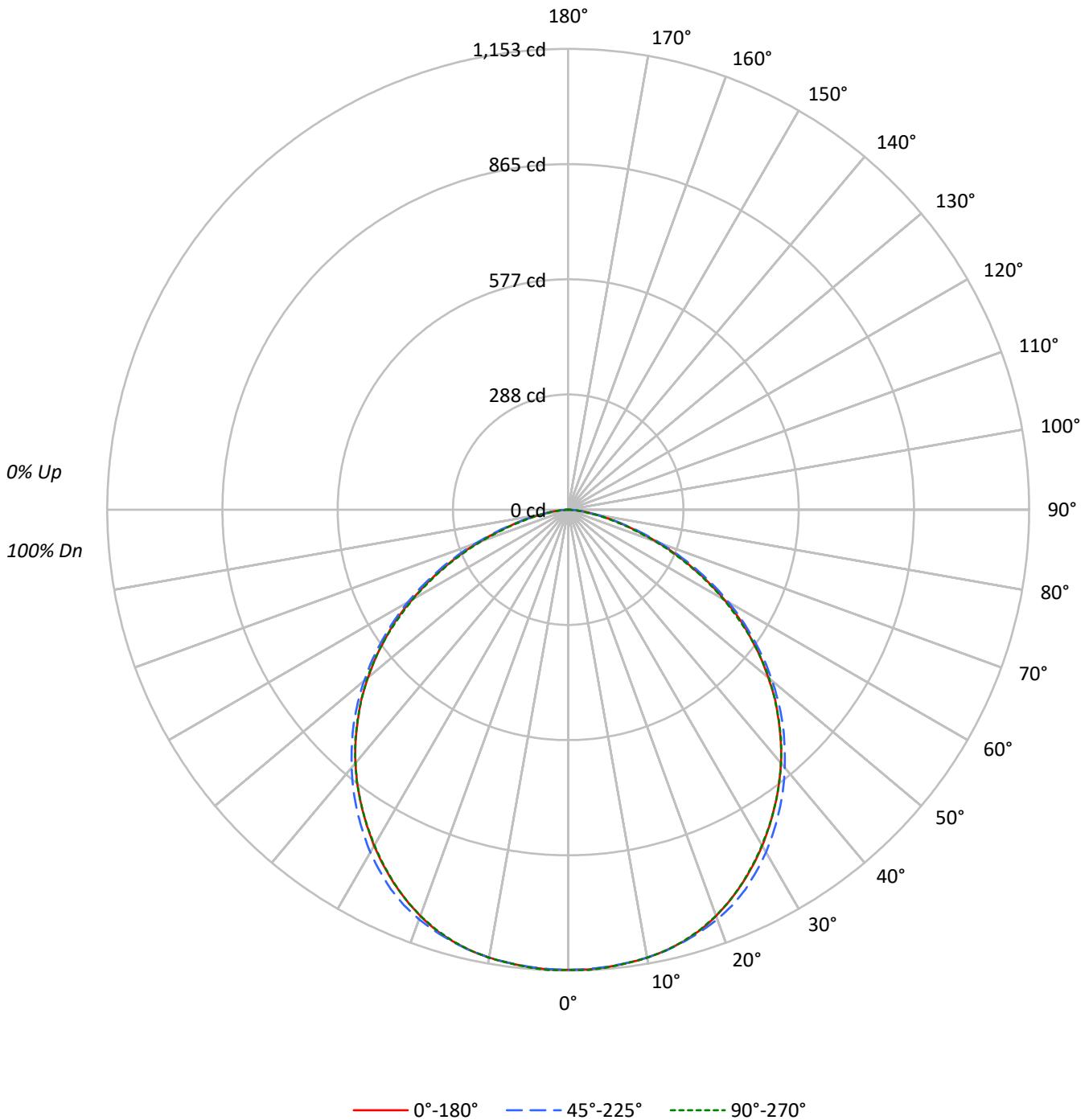
Test Method: LM-79-08  
Report Number: P413058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-30-PC3-L850  
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3093.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 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): 24.9  
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°	3098	3098	3098
5°	3102	3100	3104
10°	3110	3109	3110
15°	3114	3118	3113
20°	3098	3123	3096
25°	3062	3112	3060
30°	3017	3076	3012
35°	2964	3023	2964
40°	2909	2960	2909
45°	2832	2888	2836
50°	2735	2789	2746
55°	2608	2660	2608
60°	2432	2493	2416
65°	2183	2259	2155
70°	1867	1933	1812
75°	1482	1523	1405
80°	1062	1100	1010
85°	701	722	655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	3.5
10°-20°	315.5	10.2
20°-30°	478.7	15.5
30°-40°	571.7	18.5
40°-50°	581.4	18.8
50°-60°	502.9	16.3
60°-70°	346.0	11.2
70°-80°	157.1	5.1
80°-90°	30.4	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°	903.5	29.2
0°-40°	1475.2	47.7
0°-60°	2559.5	82.8
0°-90°	3093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1148	1147	1148	1148	1149	109
15°	1118	1118	1119	1117	1117	315
25°	1031	1040	1048	1038	1030	475
35°	902	918	920	917	902	564
45°	744	758	759	758	745	574
55°	556	565	567	566	556	497
65°	343	352	355	352	338	340
75°	142	148	146	145	135	153
85°	23	24	23	23	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	<i>1151.3</i>
2.5°	<i>1151.3</i>	<i>1149.9</i>	<i>1150.2</i>	<i>1150.6</i>	<i>1152.8</i>
5°	1148.4	1147.3	1147.7	1147.7	<i>1149.1</i>
7.5°	1143.6	1143.3	1143.3	1142.9	<i>1144.0</i>
10°	1138.2	1137.4	1137.8	1137.4	<i>1138.2</i>
12.5°	1129.7	1129.7	1130.1	1129.0	<i>1129.7</i>
15°	1117.6	1118.4	1119.1	1117.3	<i>1117.3</i>
17.5°	1102.3	1104.1	1105.9	1102.6	<i>1100.8</i>
20°	1081.8	1086.1	1090.5	1085.4	<i>1081.0</i>
22.5°	1058.0	1065.3	1071.9	1063.8	<i>1058.0</i>
25°	1031.2	1040.4	1048.1	1038.5	<i>1030.5</i>
27.5°	1002.3	1012.5	1019.9	1011.8	<i>1000.8</i>
30°	970.8	983.2	989.8	982.1	<i>969.3</i>
32.5°	937.1	951.8	955.8	951.0	<i>936.4</i>
35°	902.3	918.4	920.3	917.0	<i>902.3</i>
37.5°	866.1	881.4	882.9	881.1	<i>866.1</i>
40°	828.0	842.3	842.6	842.6	<i>828.0</i>
42.5°	787.3	801.2	801.2	800.9	<i>788.4</i>
45°	744.1	757.7	758.8	758.0	<i>745.2</i>
47.5°	701.3	711.5	713.4	711.9	<i>700.5</i>
50°	653.3	663.9	666.1	664.7	<i>655.9</i>
52.5°	605.7	615.6	617.8	616.7	<i>606.8</i>
55°	555.9	565.4	566.9	565.8	<i>555.9</i>
57.5°	507.9	514.1	515.6	513.4	<i>501.0</i>
60°	451.9	460.7	463.2	460.7	<i>449.0</i>
62.5°	397.7	407.2	409.4	405.7	<i>393.3</i>
65°	342.8	352.3	354.8	351.9	<i>338.4</i>
67.5°	290.8	297.7	299.9	296.6	<i>284.2</i>
70°	237.3	246.1	245.7	241.3	<i>230.3</i>
72.5°	184.6	196.6	194.5	191.9	<i>179.8</i>
75°	142.5	147.9	146.5	145.0	<i>135.1</i>
77.5°	101.8	108.4	104.7	105.1	<i>96.7</i>
80°	68.5	74.7	71.0	69.6	<i>65.2</i>
82.5°	43.6	46.1	45.4	44.7	<i>40.6</i>
85°	22.7	24.2	23.4	22.7	<i>21.2</i>
87.5°	8.8	9.5	8.8	8.8	<i>8.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)