

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: P413195

Luminaire Tested: **24PD-40-PC3-L930**

Issue Date: 9/15/2020



**Test Information**

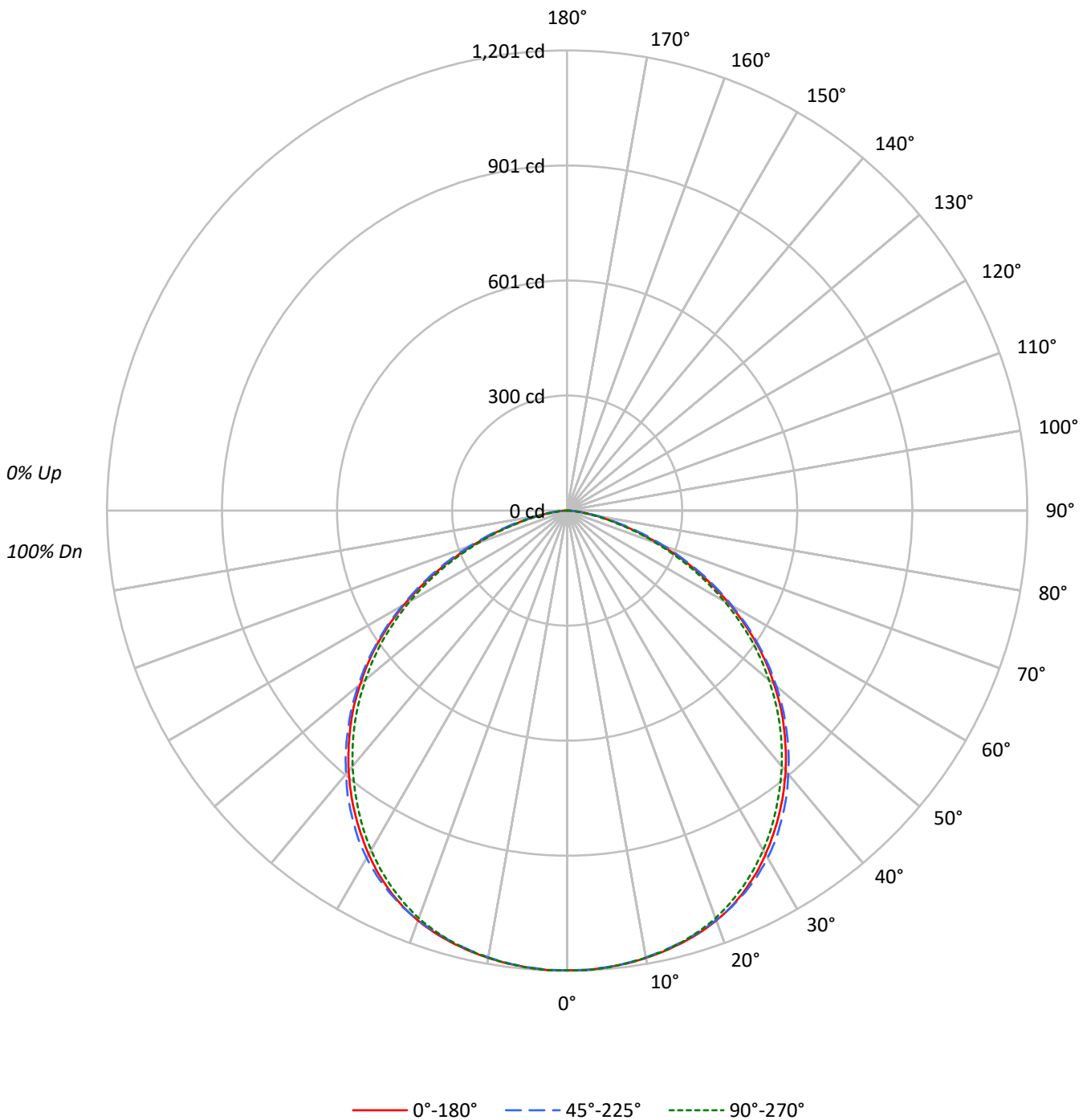
Test Method: LM-79-08  
Report Number: P413195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-40-PC3-L930  
Description: 4000 LUMEN 2X4 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: 3280.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.7  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	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	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1615	1615	1615
5°	1617	1616	1617
10°	1620	1618	1619
15°	1625	1622	1623
20°	1631	1628	1621
25°	1626	1632	1609
30°	1610	1627	1590
35°	1586	1606	1562
40°	1558	1577	1530
45°	1523	1540	1491
50°	1476	1492	1440
55°	1415	1428	1373
60°	1321	1336	1276
65°	1191	1220	1144
70°	1011	1055	970
75°	783	840	747
80°	582	607	528
85°	360	384	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	3.5
10°-20°	329.1	10.0
20°-30°	504.0	15.4
30°-40°	606.3	18.5
40°-50°	618.2	18.8
50°-60°	536.0	16.3
60°-70°	371.6	11.3
70°-80°	169.7	5.2
80°-90°	31.3	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°	946.9	28.9
0°-40°	1553.2	47.4
0°-60°	2707.4	82.5
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1197	1197	1196	1196	1197	114
15°	1167	1166	1164	1163	1165	330
25°	1095	1098	1099	1090	1084	504
35°	966	976	978	965	951	604
45°	800	810	809	798	784	617
55°	603	607	609	594	585	538
65°	374	382	383	370	359	370
75°	151	159	162	156	144	165
85°	23	24	25	24	22	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1200.0	1200.0	1200.0	1200.0	1200.0
2.5°	1200.0	1200.0	1199.3	1198.7	1200.7
5°	1197.0	1197.0	1196.3	1195.7	1197.3
7.5°	1192.3	1192.0	1191.3	1190.7	1191.7
10°	1185.7	1185.4	1184.0	1183.7	1185.0
12.5°	1177.4	1177.1	1175.1	1175.1	1176.1
15°	1166.8	1166.4	1164.4	1163.4	1164.8
17.5°	1154.8	1154.5	1152.1	1149.5	1150.1
20°	1138.8	1138.8	1137.2	1133.2	1132.2
22.5°	1119.5	1120.5	1120.5	1112.9	1109.9
25°	1095.3	1098.3	1099.3	1089.6	1084.0
27.5°	1067.7	1072.3	1075.0	1062.7	1055.4
30°	1036.1	1043.8	1047.1	1033.8	1023.2
32.5°	1001.5	1011.2	1015.2	1002.2	988.6
35°	965.6	975.9	977.9	965.3	951.0
37.5°	927.4	938.1	940.7	929.4	911.8
40°	887.2	897.8	897.8	888.5	871.2
42.5°	844.6	855.9	855.6	844.3	828.7
45°	800.4	810.4	809.1	798.1	783.8
47.5°	754.9	761.2	762.9	749.9	736.3
50°	705.0	711.4	713.0	698.4	687.8
52.5°	655.8	659.8	662.2	645.2	637.6
55°	603.3	607.0	608.6	593.7	585.4
57.5°	547.8	552.5	554.5	539.5	530.2
60°	491.0	496.0	496.6	482.7	474.0
62.5°	433.1	439.8	441.1	427.1	416.8
65°	374.0	381.9	383.3	370.3	359.3
67.5°	314.8	325.4	325.8	315.1	302.2
70°	257.0	268.6	268.3	259.3	246.6
72.5°	201.8	212.4	214.7	206.4	194.1
75°	150.6	158.9	161.6	156.2	143.6
77.5°	107.0	114.7	117.0	112.0	102.7
80°	75.1	75.5	78.4	74.5	68.1
82.5°	46.5	45.9	46.9	45.2	41.6
85°	23.3	23.9	24.9	23.6	21.6
87.5°	8.0	8.3	9.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)