

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: P413192

Luminaire Tested: **24PD-40-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

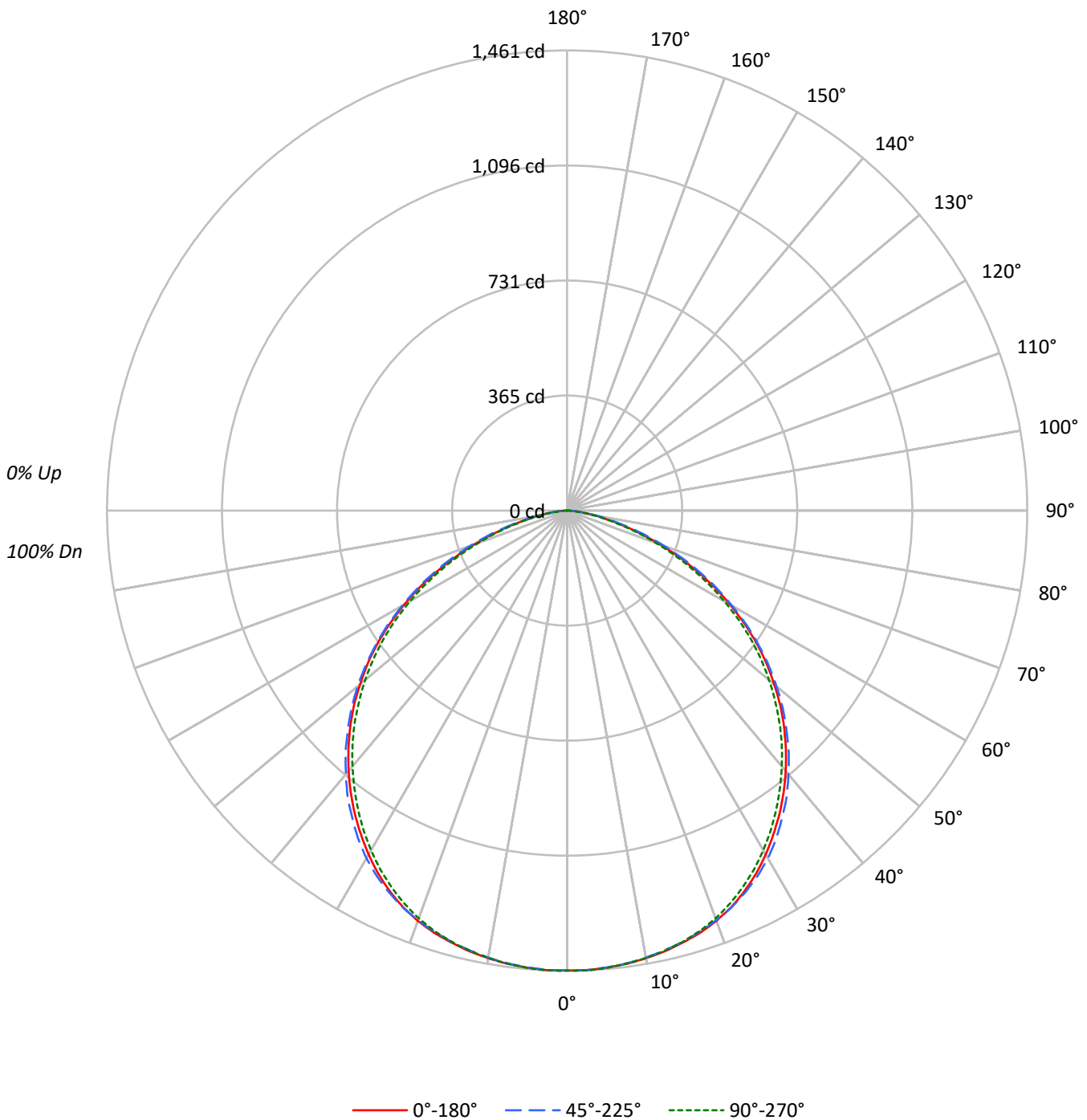
Test Method: LM-79-08  
Report Number: P413192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-40-PC3-L840  
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3992.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 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 (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	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°	1965	1965	1965
5°	1968	1967	1968
10°	1972	1969	1971
15°	1978	1974	1975
20°	1985	1982	1973
25°	1979	1986	1959
30°	1959	1980	1935
35°	1930	1955	1901
40°	1897	1919	1862
45°	1854	1874	1815
50°	1796	1816	1752
55°	1723	1738	1671
60°	1608	1626	1552
65°	1449	1485	1392
70°	1230	1284	1181
75°	953	1022	909
80°	708	740	642
85°	437	468	406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	3.5
10°-20°	400.5	10.0
20°-30°	613.4	15.4
30°-40°	737.9	18.5
40°-50°	752.4	18.8
50°-60°	652.3	16.3
60°-70°	452.2	11.3
70°-80°	206.5	5.2
80°-90°	38.1	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°	1152.4	28.9
0°-40°	1890.3	47.4
0°-60°	3295.1	82.5
0°-90°	3992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1457	1457	1456	1455	1457	139
15°	1420	1420	1417	1416	1418	401
25°	1333	1337	1338	1326	1319	614
35°	1175	1188	1190	1175	1158	735
45°	974	986	985	971	954	751
55°	734	739	741	723	712	654
65°	455	465	466	451	437	450
75°	183	193	197	190	175	200
85°	28	29	30	29	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1460.5	1460.5	1460.5	1460.5	1460.5
2.5°	1460.5	1460.5	1459.7	1458.9	1461.3
5°	1456.8	1456.8	1456.0	1455.2	1457.2
7.5°	1451.2	1450.8	1450.0	1449.1	1450.4
10°	1443.1	1442.7	1441.1	1440.7	1442.3
12.5°	1433.0	1432.6	1430.1	1430.1	1431.3
15°	1420.0	1419.6	1417.2	1416.0	1417.6
17.5°	1405.5	1405.1	1402.2	1399.0	1399.8
20°	1386.0	1386.0	1384.0	1379.2	1377.9
22.5°	1362.6	1363.8	1363.8	1354.5	1350.8
25°	1333.0	1336.7	1337.9	1326.2	1319.3
27.5°	1299.5	1305.1	1308.4	1293.4	1284.5
30°	1261.0	1270.3	1274.4	1258.2	1245.2
32.5°	1219.0	1230.7	1235.5	1219.8	1203.2
35°	1175.3	1187.8	1190.2	1174.9	1157.5
37.5°	1128.7	1141.7	1144.9	1131.2	1109.7
40°	1079.8	1092.7	1092.7	1081.4	1060.4
42.5°	1028.0	1041.8	1041.3	1027.6	1008.6
45°	974.2	986.3	984.7	971.4	954.0
47.5°	918.8	926.5	928.5	912.7	896.1
50°	858.1	865.8	867.8	850.0	837.0
52.5°	798.2	803.1	805.9	785.3	776.0
55°	734.3	738.7	740.8	722.6	712.4
57.5°	666.7	672.4	674.8	656.6	645.3
60°	597.5	603.6	604.4	587.4	576.9
62.5°	527.1	535.2	536.9	519.9	507.3
65°	455.1	464.8	466.5	450.7	437.3
67.5°	383.1	396.1	396.5	383.5	367.7
70°	312.7	326.9	326.5	315.6	300.2
72.5°	245.6	258.5	261.3	251.2	236.3
75°	183.3	193.4	196.6	190.1	174.8
77.5°	130.3	139.6	142.4	136.3	125.0
80°	91.4	91.8	95.5	90.6	82.9
82.5°	56.6	55.8	57.0	55.0	50.6
85°	28.3	29.1	30.3	28.7	26.3
87.5°	9.7	10.1	10.9	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)