

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: P413197

Luminaire Tested: **24PD-40-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413197
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-L940
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

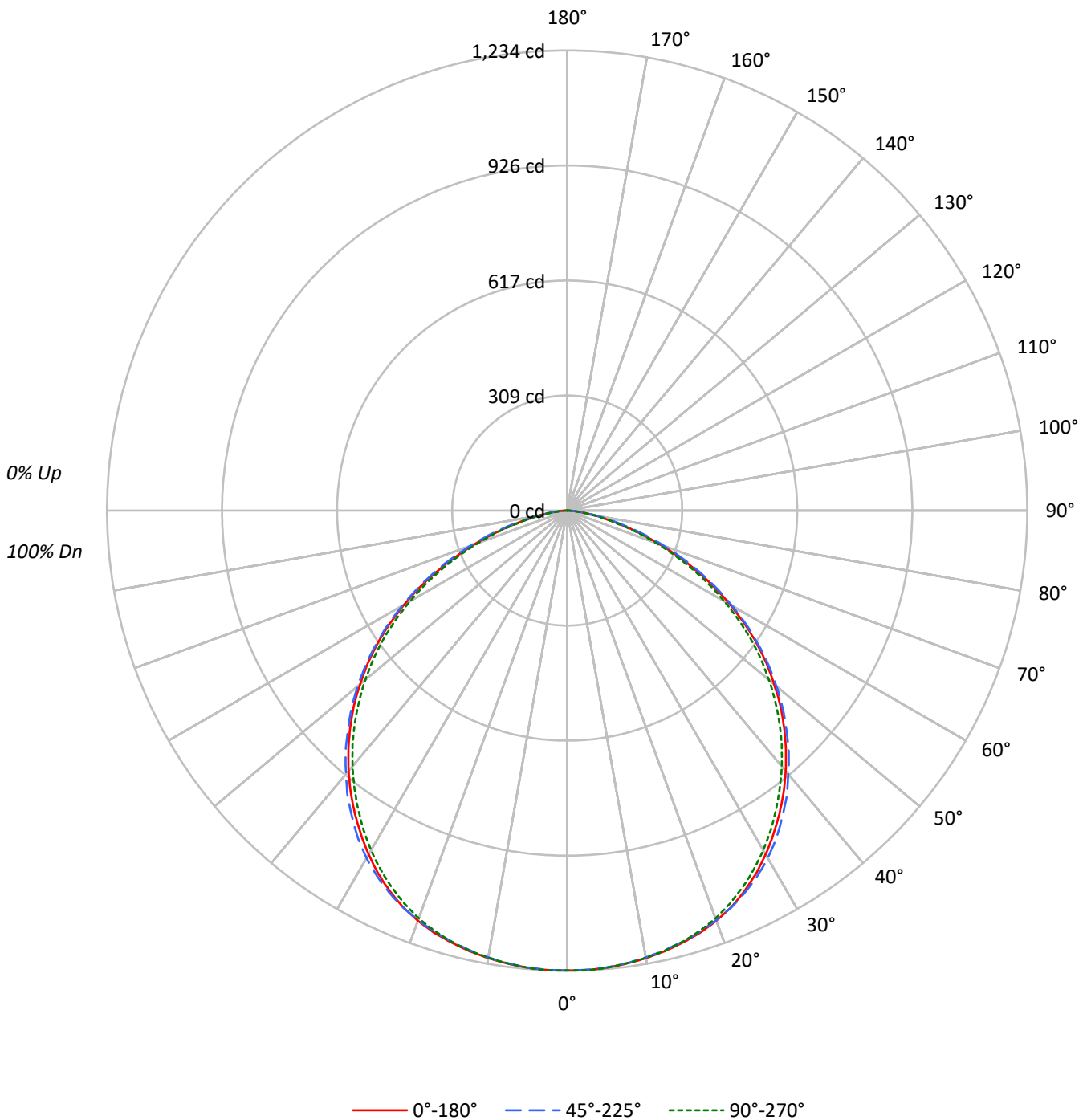
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 113.5 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°	1659	1659	1659
5°	1662	1661	1662
10°	1665	1663	1664
15°	1670	1667	1668
20°	1676	1673	1666
25°	1671	1677	1654
30°	1654	1672	1634
35°	1630	1651	1605
40°	1601	1621	1573
45°	1565	1582	1533
50°	1517	1534	1479
55°	1455	1467	1411
60°	1358	1373	1311
65°	1223	1254	1176
70°	1039	1085	997
75°	805	863	767
80°	598	625	542
85°	369	395	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.5
10°-20°	338.2	10.0
20°-30°	517.9	15.4
30°-40°	623.1	18.5
40°-50°	635.4	18.8
50°-60°	550.8	16.3
60°-70°	381.9	11.3
70°-80°	174.4	5.2
80°-90°	32.2	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°	973.2	28.9
0°-40°	1596.2	47.4
0°-60°	2782.5	82.5
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1230	1230	1230	1229	1231	117
15°	1199	1199	1197	1196	1197	339
25°	1126	1129	1130	1120	1114	518
35°	992	1003	1005	992	977	621
45°	823	833	832	820	806	634
55°	620	624	626	610	602	552
65°	384	392	394	381	369	380
75°	155	163	166	161	148	169
85°	24	25	26	24	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.3	1233.3	1233.3	1233.3	1233.3
2.5°	1233.3	1233.3	1232.6	1231.9	1234.0
5°	1230.2	1230.2	1229.5	1228.8	1230.6
7.5°	1225.4	1225.1	1224.4	1223.7	1224.7
10°	1218.6	1218.3	1216.9	1216.5	1217.9
12.5°	1210.1	1209.7	1207.7	1207.7	1208.7
15°	1199.1	1198.8	1196.7	1195.7	1197.1
17.5°	1186.8	1186.5	1184.1	1181.4	1182.0
20°	1170.4	1170.4	1168.7	1164.6	1163.6
22.5°	1150.6	1151.6	1151.6	1143.8	1140.7
25°	1125.7	1128.7	1129.8	1119.9	1114.1
27.5°	1097.3	1102.1	1104.8	1092.2	1084.7
30°	1064.9	1072.7	1076.1	1062.5	1051.5
32.5°	1029.3	1039.2	1043.3	1030.0	1016.0
35°	992.4	1003.0	1005.1	992.1	977.4
37.5°	953.1	964.1	966.8	955.2	937.1
40°	911.8	922.7	922.7	913.2	895.4
42.5°	868.1	879.7	879.4	867.7	851.7
45°	822.6	832.9	831.5	820.3	805.6
47.5°	775.8	782.3	784.0	770.7	756.7
50°	724.6	731.1	732.8	717.8	706.8
52.5°	674.0	678.1	680.5	663.1	655.2
55°	620.1	623.8	625.5	610.2	601.6
57.5°	563.0	567.8	569.8	554.5	544.9
60°	504.6	509.7	510.4	496.0	487.2
62.5°	445.1	452.0	453.3	439.0	428.4
65°	384.3	392.5	393.9	380.6	369.3
67.5°	323.5	334.5	334.8	323.9	310.5
70°	264.1	276.0	275.7	266.5	253.5
72.5°	207.4	218.3	220.7	212.2	199.5
75°	154.8	163.3	166.0	160.6	147.6
77.5°	110.0	117.9	120.3	115.1	105.6
80°	77.2	77.5	80.6	76.5	70.0
82.5°	47.8	47.1	48.2	46.5	42.7
85°	23.9	24.6	25.6	24.3	22.2
87.5°	8.2	8.5	9.2	9.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)