

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: P413198

Luminaire Tested: **24PD-40-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413198
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-L950
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

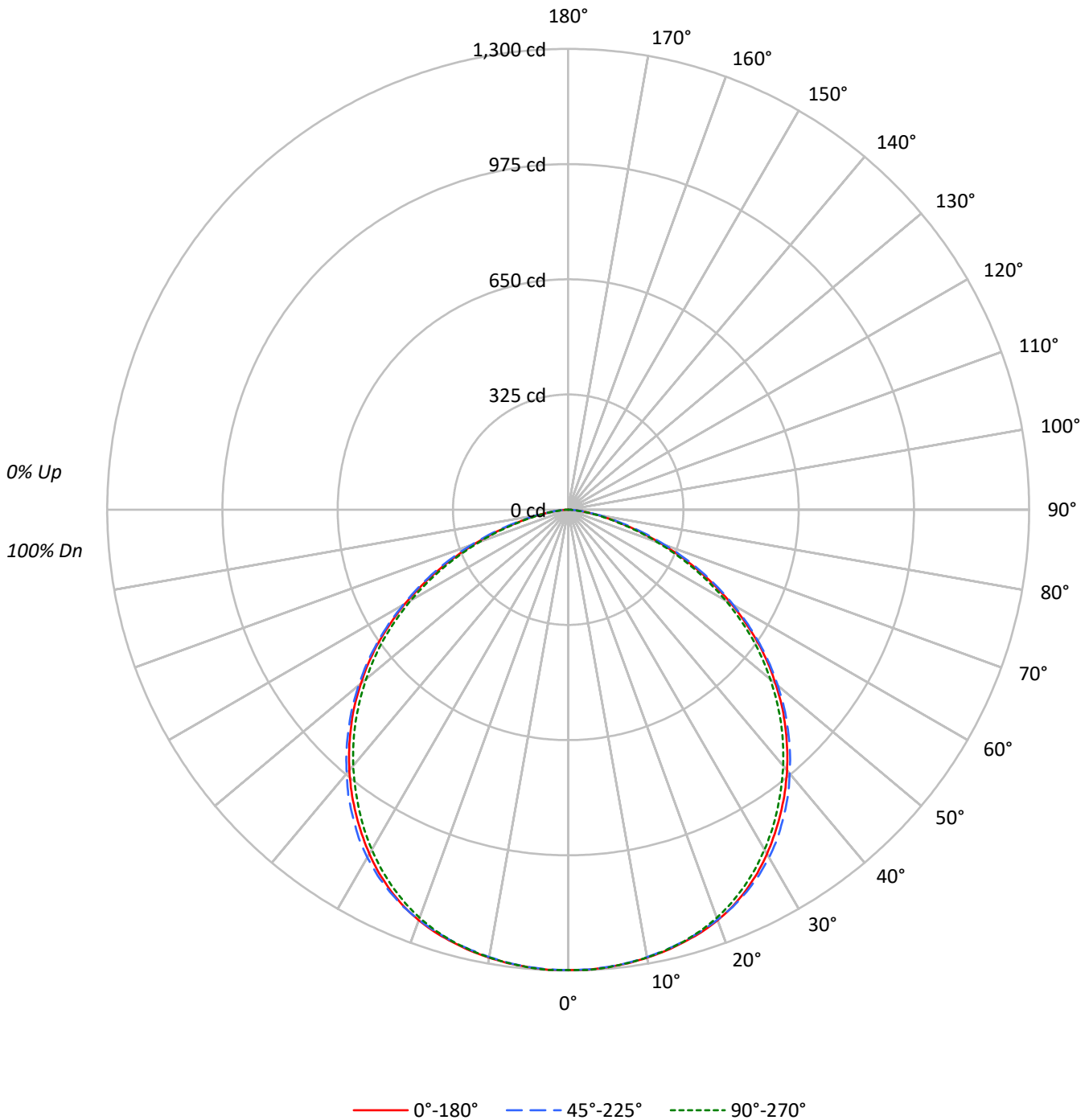
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.0 lumens
Efficiency: N/A
Efficacy: 119.5 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°	1748	1748	1748
5°	1750	1749	1750
10°	1753	1751	1752
15°	1759	1756	1756
20°	1765	1762	1755
25°	1760	1766	1742
30°	1742	1761	1720
35°	1717	1738	1691
40°	1687	1707	1656
45°	1648	1666	1614
50°	1597	1615	1558
55°	1532	1545	1486
60°	1430	1446	1380
65°	1288	1321	1238
70°	1094	1142	1050
75°	847	909	808
80°	630	658	572
85°	389	417	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.5
10°-20°	356.2	10.0
20°-30°	545.5	15.4
30°-40°	656.2	18.5
40°-50°	669.1	18.8
50°-60°	580.1	16.3
60°-70°	402.2	11.3
70°-80°	183.7	5.2
80°-90°	33.9	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°	1024.8	28.9
0°-40°	1681.0	47.4
0°-60°	2930.2	82.5
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1296	1296	1295	1294	1296	123
15°	1263	1262	1260	1259	1261	357
25°	1185	1189	1190	1179	1173	546
35°	1045	1056	1058	1045	1029	654
45°	866	877	876	864	848	668
55°	653	657	659	643	634	582
65°	405	413	415	401	389	400
75°	163	172	175	169	155	178
85°	25	26	27	26	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.8	1298.8	1298.8	1298.8	1298.8
2.5°	1298.8	1298.8	1298.1	1297.3	1299.5
5°	1295.5	1295.5	1294.8	1294.1	1295.9
7.5°	1290.5	1290.1	1289.4	1288.7	1289.8
10°	1283.3	1282.9	1281.5	1281.1	1282.6
12.5°	1274.3	1273.9	1271.8	1271.8	1272.9
15°	1262.8	1262.4	1260.3	1259.2	1260.6
17.5°	1249.8	1249.5	1247.0	1244.1	1244.8
20°	1232.6	1232.6	1230.8	1226.5	1225.4
22.5°	1211.7	1212.8	1212.8	1204.5	1201.3
25°	1185.4	1188.7	1189.8	1179.3	1173.2
27.5°	1155.6	1160.6	1163.5	1150.2	1142.3
30°	1121.4	1129.7	1133.3	1118.9	1107.4
32.5°	1084.0	1094.4	1098.7	1084.7	1070.0
35°	1045.1	1056.3	1058.4	1044.8	1029.3
37.5°	1003.8	1015.3	1018.2	1005.9	986.9
40°	960.2	971.7	971.7	961.7	943.0
42.5°	914.2	926.4	926.0	913.8	896.9
45°	866.3	877.1	875.7	863.8	848.3
47.5°	817.0	823.9	825.7	811.6	796.9
50°	763.1	769.9	771.7	755.9	744.4
52.5°	709.8	714.1	716.7	698.3	690.0
55°	653.0	656.9	658.7	642.6	633.6
57.5°	592.9	597.9	600.1	583.9	573.8
60°	531.4	536.8	537.5	522.4	513.0
62.5°	468.8	476.0	477.4	462.3	451.2
65°	404.7	413.4	414.8	400.8	388.9
67.5°	340.7	352.2	352.6	341.1	327.0
70°	278.1	290.7	290.3	280.6	266.9
72.5°	218.4	229.9	232.4	223.4	210.1
75°	163.0	172.0	174.8	169.1	155.4
77.5°	115.8	124.1	126.6	121.2	111.2
80°	81.3	81.7	84.9	80.6	73.8
82.5°	50.4	49.6	50.7	48.9	45.0
85°	25.2	25.9	27.0	25.5	23.4
87.5°	8.6	9.0	9.7	9.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)