

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: P413215

Luminaire Tested: **24PD-50-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413215
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-50-PC3-L940
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

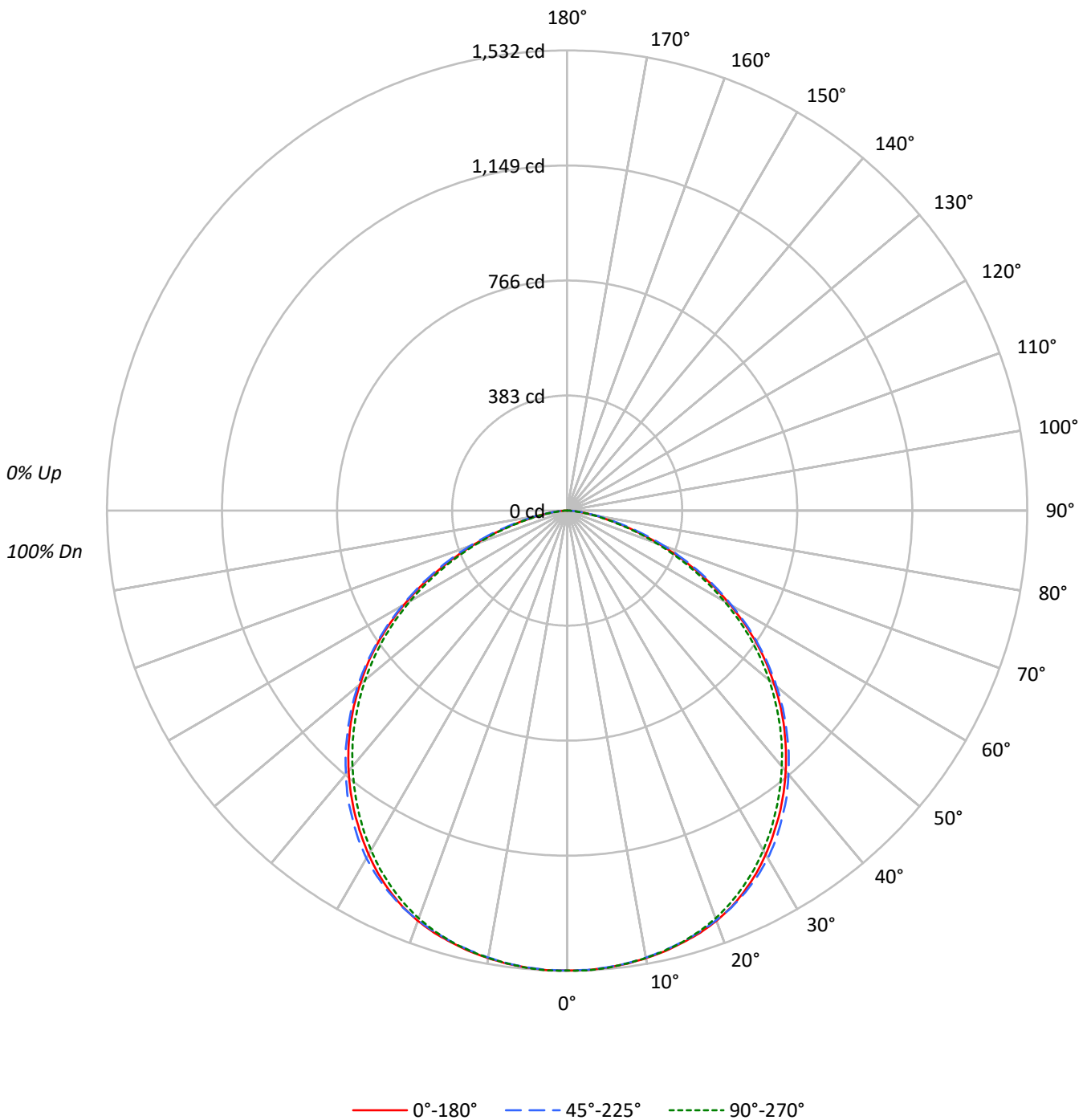
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 111.6 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): 37.5
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

TEST NUMBER: P413215
CATALOG NUMBER: 24PD-50-PC3-L940

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°	2061	2061	2061
5°	2063	2062	2064
10°	2067	2065	2066
15°	2074	2070	2071
20°	2081	2078	2069
25°	2075	2083	2054
30°	2054	2076	2029
35°	2024	2050	1994
40°	1989	2012	1953
45°	1944	1965	1903
50°	1883	1905	1837
55°	1806	1822	1753
60°	1686	1706	1628
65°	1520	1557	1460
70°	1290	1347	1238
75°	999	1072	953
80°	743	776	674
85°	459	491	426



TEST NUMBER: P413215

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.5
10°-20°	420.0	10.0
20°-30°	643.2	15.4
30°-40°	773.7	18.5
40°-50°	789.0	18.8
50°-60°	684.0	16.3
60°-70°	474.2	11.3
70°-80°	216.6	5.2
80°-90°	40.0	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°	1208.4	28.9
0°-40°	1982.2	47.4
0°-60°	3455.2	82.5
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1528	1528	1527	1526	1528	145
15°	1489	1489	1486	1485	1486	421
25°	1398	1402	1403	1391	1383	644
35°	1232	1246	1248	1232	1214	771
45°	1022	1034	1033	1019	1000	787
55°	770	775	777	758	747	686
65°	477	487	489	473	459	472
75°	192	203	206	199	183	210
85°	30	30	32	30	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.5	1531.5	1531.5	1531.5	1531.5
2.5°	1531.5	1531.5	1530.6	1529.8	1532.3
5°	1527.6	1527.6	1526.8	1525.9	1528.1
7.5°	1521.7	1521.3	1520.4	1519.6	1520.8
10°	1513.2	1512.8	1511.1	1510.7	1512.4
12.5°	1502.6	1502.2	1499.6	1499.6	1500.9
15°	1489.0	1488.6	1486.1	1484.8	1486.5
17.5°	1473.8	1473.3	1470.4	1467.0	1467.8
20°	1453.4	1453.4	1451.3	1446.2	1444.9
22.5°	1428.8	1430.1	1430.1	1420.3	1416.5
25°	1397.8	1401.6	1402.9	1390.6	1383.4
27.5°	1362.6	1368.6	1371.9	1356.2	1346.9
30°	1322.3	1332.1	1336.3	1319.3	1305.8
32.5°	1278.2	1290.5	1295.6	1279.0	1261.6
35°	1232.4	1245.5	1248.1	1231.9	1213.7
37.5°	1183.6	1197.2	1200.6	1186.1	1163.6
40°	1132.3	1145.8	1145.8	1134.0	1111.9
42.5°	1078.0	1092.4	1092.0	1077.5	1057.6
45°	1021.5	1034.3	1032.6	1018.6	1000.3
47.5°	963.4	971.5	973.6	957.1	939.7
50°	899.8	907.8	910.0	891.3	877.7
52.5°	837.0	842.1	845.1	823.4	813.7
55°	770.0	774.6	776.8	757.7	747.1
57.5°	699.1	705.1	707.6	688.5	676.6
60°	626.6	632.9	633.8	616.0	604.9
62.5°	552.8	561.2	562.9	545.1	532.0
65°	477.3	487.4	489.1	472.6	458.6
67.5°	401.7	415.3	415.7	402.2	385.6
70°	327.9	342.8	342.3	330.9	314.8
72.5°	257.5	271.1	274.0	263.4	247.7
75°	192.2	202.8	206.2	199.4	183.3
77.5°	136.6	146.4	149.3	143.0	131.1
80°	95.9	96.3	100.1	95.0	87.0
82.5°	59.4	58.5	59.8	57.7	53.0
85°	29.7	30.5	31.8	30.1	27.6
87.5°	10.2	10.6	11.5	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)