

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: P413233

Luminaire Tested: **24PD-60-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413233
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-60-PC3-L940
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

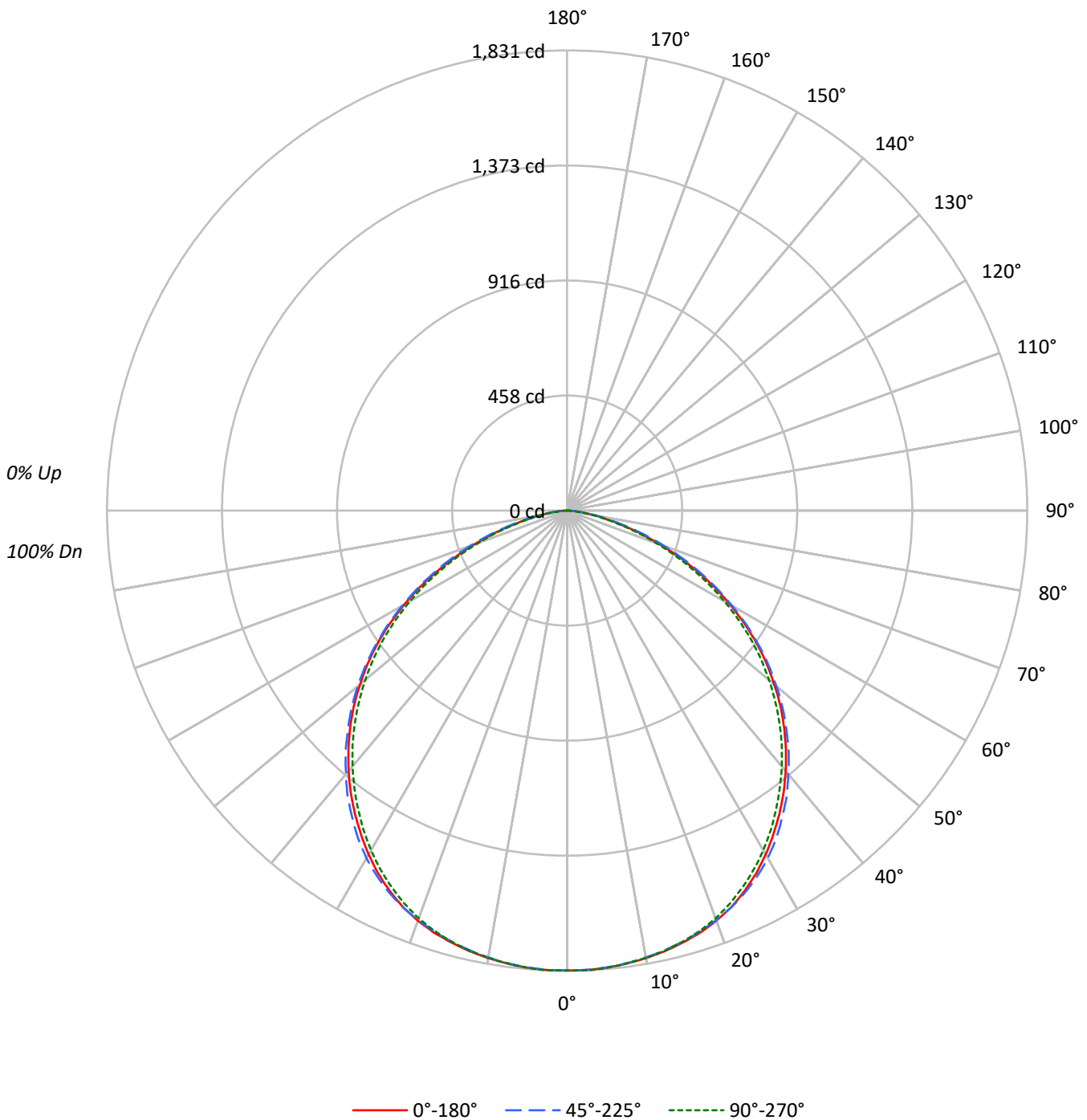
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.0 lumens
Efficiency: N/A
Efficacy: 110.2 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): 45.4
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: P413233
CATALOG NUMBER: 24PD-60-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°	2462	2462	2462
5°	2465	2464	2466
10°	2470	2467	2469
15°	2478	2473	2474
20°	2487	2483	2472
25°	2480	2489	2454
30°	2455	2481	2424
35°	2419	2450	2382
40°	2376	2405	2334
45°	2323	2348	2274
50°	2251	2276	2195
55°	2158	2177	2094
60°	2015	2038	1945
65°	1816	1861	1745
70°	1542	1609	1480
75°	1194	1281	1138
80°	888	927	805
85°	548	587	508



TEST NUMBER: P413233

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.5
10°-20°	501.9	10.0
20°-30°	768.5	15.4
30°-40°	924.6	18.5
40°-50°	942.8	18.8
50°-60°	817.3	16.3
60°-70°	566.7	11.3
70°-80°	258.8	5.2
80°-90°	47.8	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°	1444.0	28.9
0°-40°	2368.6	47.4
0°-60°	4128.7	82.5
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1825	1825	1824	1823	1826	174
15°	1779	1779	1776	1774	1776	503
25°	1670	1675	1676	1662	1653	769
35°	1473	1488	1491	1472	1450	921
45°	1221	1236	1234	1217	1195	941
55°	920	926	928	905	893	820
65°	570	582	584	565	548	564
75°	230	242	246	238	219	251
85°	36	36	38	36	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.0	1830.0	1830.0	1830.0	1830.0
2.5°	1830.0	1830.0	1829.0	1828.0	1831.0
5°	1825.4	1825.4	1824.4	1823.4	1825.9
7.5°	1818.3	1817.8	1816.8	1815.8	1817.3
10°	1808.2	1807.7	1805.7	1805.1	1807.2
12.5°	1795.5	1795.0	1792.0	1792.0	1793.5
15°	1779.3	1778.8	1775.7	1774.2	1776.3
17.5°	1761.0	1760.5	1757.0	1752.9	1753.9
20°	1736.7	1736.7	1734.2	1728.1	1726.6
22.5°	1707.3	1708.8	1708.8	1697.2	1692.6
25°	1670.3	1674.9	1676.4	1661.7	1653.1
27.5°	1628.2	1635.3	1639.4	1620.6	1609.5
30°	1580.1	1591.7	1596.8	1576.5	1560.3
32.5°	1527.4	1542.1	1548.1	1528.4	1507.6
35°	1472.6	1488.3	1491.4	1472.1	1450.3
37.5°	1414.3	1430.5	1434.6	1417.4	1390.5
40°	1353.0	1369.2	1369.2	1355.0	1328.6
42.5°	1288.1	1305.3	1304.8	1287.6	1263.8
45°	1220.7	1235.9	1233.8	1217.1	1195.3
47.5°	1151.2	1160.9	1163.4	1143.6	1122.8
50°	1075.2	1084.8	1087.3	1065.0	1048.8
52.5°	1000.2	1006.2	1009.8	983.9	972.3
55°	920.1	925.6	928.2	905.4	892.7
57.5°	835.4	842.5	845.5	822.7	808.5
60°	748.7	756.3	757.3	736.1	722.9
62.5°	660.5	670.7	672.7	651.4	635.7
65°	570.3	582.5	584.5	564.7	548.0
67.5°	480.1	496.3	496.8	480.6	460.8
70°	391.9	409.6	409.1	395.4	376.1
72.5°	307.7	323.9	327.5	314.8	296.0
75°	229.6	242.3	246.4	238.3	219.0
77.5°	163.2	174.9	178.4	170.8	156.6
80°	114.6	115.1	119.6	113.6	103.9
82.5°	71.0	70.0	71.5	68.9	63.4
85°	35.5	36.5	38.0	36.0	32.9
87.5°	12.2	12.7	13.7	13.7	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)