

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: P413210

Luminaire Tested: **24PD-50-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413210
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-L840
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

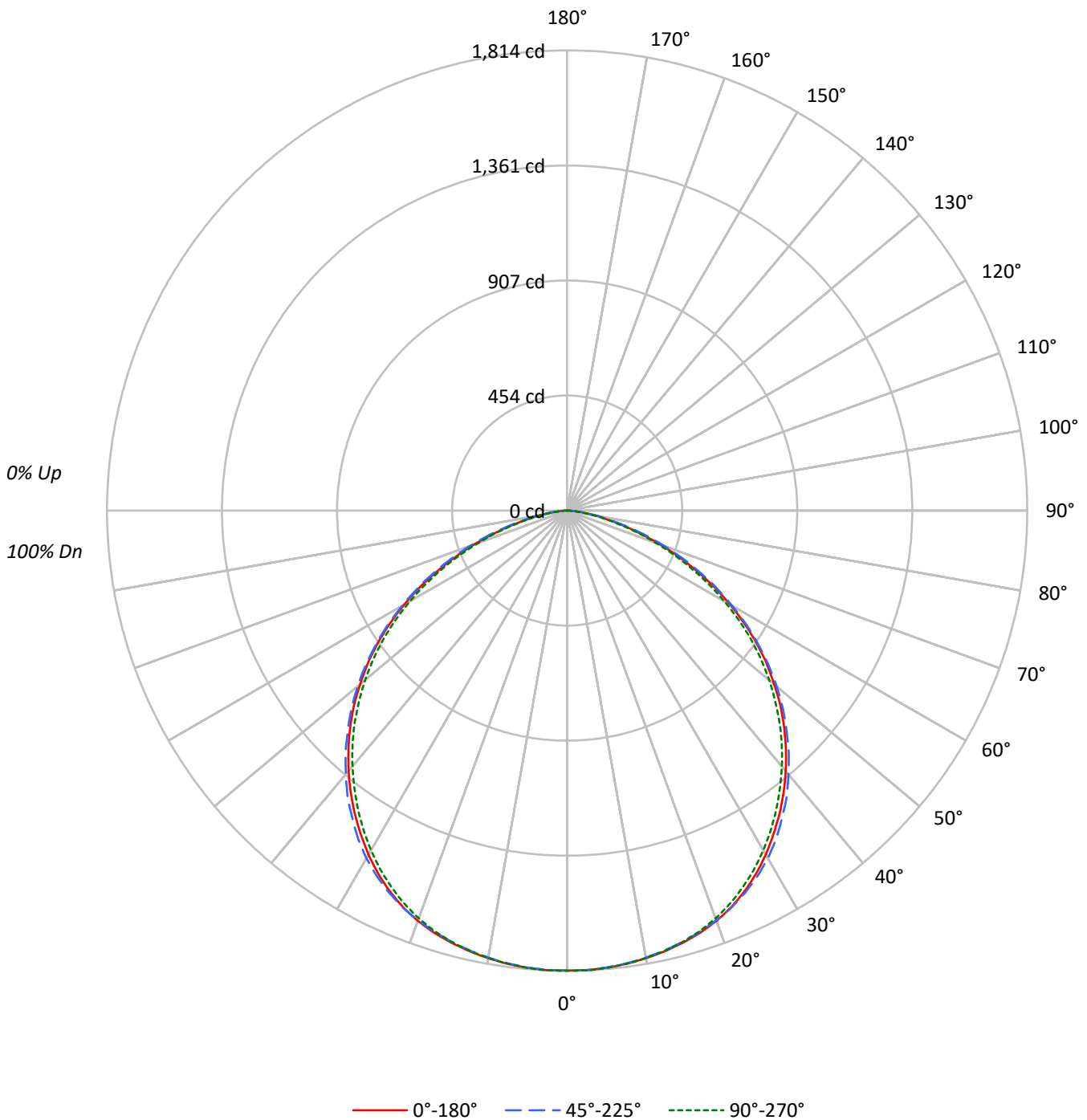
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4957.0 lumens
Efficiency: N/A
Efficacy: 132.2 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): 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

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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°	2440	2440	2440
5°	2443	2442	2444
10°	2448	2445	2447
15°	2456	2451	2452
20°	2464	2461	2450
25°	2457	2466	2432
30°	2433	2458	2402
35°	2397	2428	2361
40°	2355	2383	2313
45°	2302	2327	2254
50°	2230	2256	2176
55°	2139	2158	2075
60°	1997	2020	1928
65°	1799	1844	1729
70°	1528	1595	1467
75°	1183	1269	1128
80°	879	919	798
85°	543	582	505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.5
10°-20°	497.3	10.0
20°-30°	761.6	15.4
30°-40°	916.3	18.5
40°-50°	934.3	18.8
50°-60°	810.0	16.3
60°-70°	561.6	11.3
70°-80°	256.5	5.2
80°-90°	47.4	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°	1431.0	28.9
0°-40°	2347.3	47.4
0°-60°	4091.6	82.5
0°-90°	4957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1809	1809	1808	1807	1810	172
15°	1763	1763	1760	1758	1760	498
25°	1655	1660	1661	1647	1638	762
35°	1459	1475	1478	1459	1437	913
45°	1210	1225	1223	1206	1185	932
55°	912	917	920	897	885	812
65°	565	577	579	560	543	559
75°	228	240	244	236	217	249
85°	35	36	38	36	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.5	1813.5	1813.5	1813.5	1813.5
2.5°	1813.5	1813.5	1812.5	1811.5	1814.5
5°	1809.0	1809.0	1808.0	1807.0	1809.5
7.5°	1802.0	1801.5	1800.5	1799.5	1801.0
10°	1791.9	1791.4	1789.4	1788.9	1790.9
12.5°	1779.4	1778.9	1775.8	1775.8	1777.4
15°	1763.3	1762.8	1759.8	1758.3	1760.3
17.5°	1745.2	1744.7	1741.2	1737.2	1738.2
20°	1721.1	1721.1	1718.6	1712.5	1711.0
22.5°	1692.0	1693.5	1693.5	1681.9	1677.4
25°	1655.3	1659.8	1661.3	1646.7	1638.2
27.5°	1613.6	1620.6	1624.6	1606.0	1595.0
30°	1565.9	1577.4	1582.4	1562.3	1546.3
32.5°	1513.6	1528.2	1534.2	1514.6	1494.0
35°	1459.4	1474.9	1477.9	1458.9	1437.3
37.5°	1401.6	1417.7	1421.7	1404.6	1378.0
40°	1340.8	1356.9	1356.9	1342.8	1316.7
42.5°	1276.5	1293.6	1293.1	1276.0	1252.4
45°	1209.7	1224.8	1222.7	1206.2	1184.6
47.5°	1140.9	1150.4	1152.9	1133.3	1112.7
50°	1065.5	1075.1	1077.6	1055.5	1039.4
52.5°	991.2	997.2	1000.7	975.1	963.5
55°	911.8	917.3	919.8	897.2	884.7
57.5°	827.9	834.9	837.9	815.3	801.3
60°	742.0	749.5	750.5	729.4	716.4
62.5°	654.6	664.6	666.6	645.5	630.0
65°	565.2	577.2	579.2	559.6	543.1
67.5°	475.7	491.8	492.3	476.2	456.6
70°	388.3	405.9	405.4	391.8	372.8
72.5°	304.9	321.0	324.5	312.0	293.4
75°	227.6	240.1	244.1	236.1	217.0
77.5°	161.8	173.3	176.8	169.3	155.2
80°	113.5	114.0	118.6	112.5	103.0
82.5°	70.3	69.3	70.8	68.3	62.8
85°	35.2	36.2	37.7	35.7	32.7
87.5°	12.1	12.6	13.6	13.6	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)