

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: P413216

Luminaire Tested: **24PD-50-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413216
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-L950
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

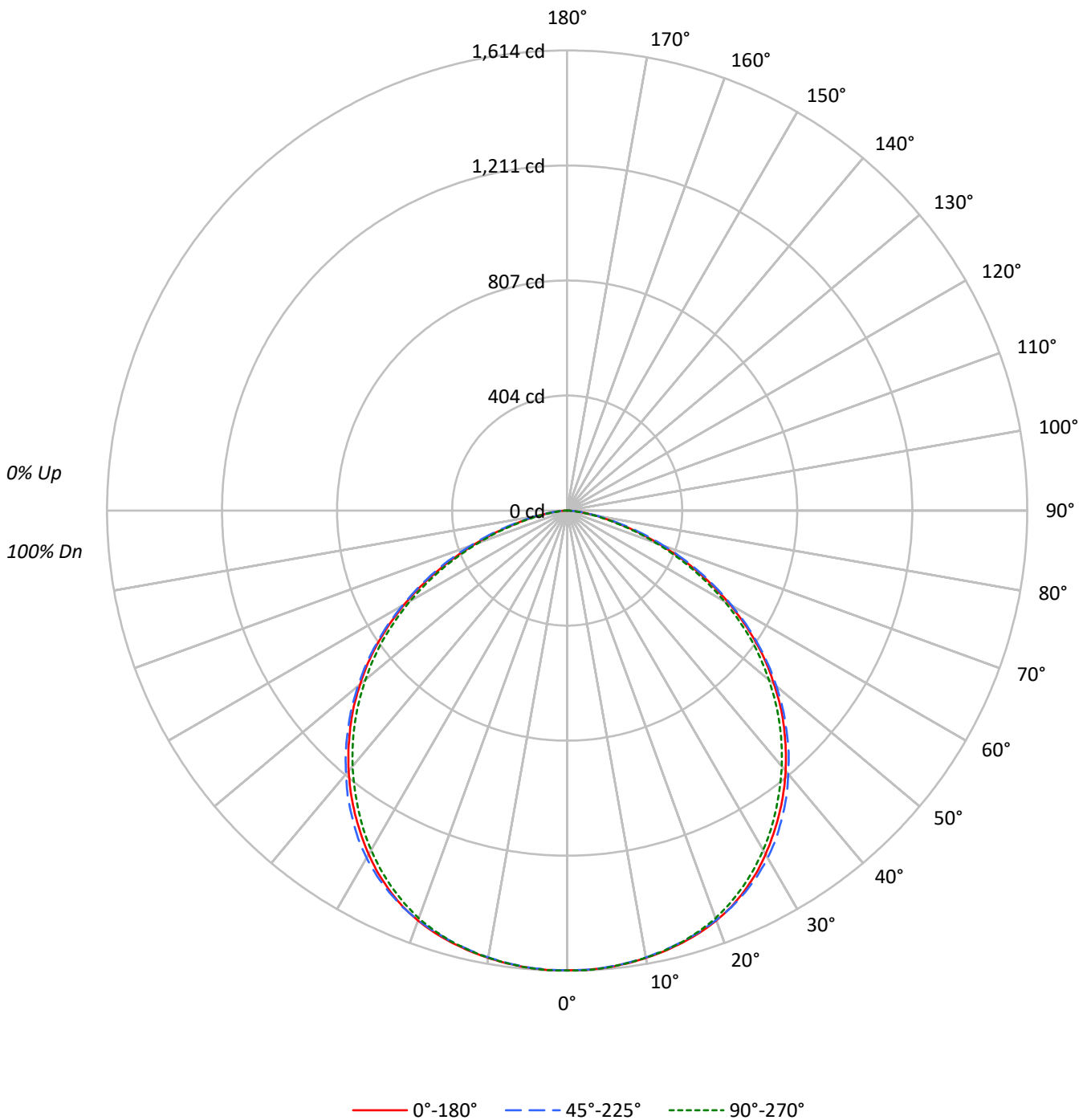
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 117.5 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): 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: P413216
CATALOG NUMBER: 24PD-50-PC3-L950

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°	2170	2170	2170
5°	2173	2172	2173
10°	2177	2174	2176
15°	2184	2180	2180
20°	2191	2188	2179
25°	2185	2193	2163
30°	2163	2186	2136
35°	2132	2159	2099
40°	2094	2119	2057
45°	2047	2069	2004
50°	1983	2006	1935
55°	1902	1919	1845
60°	1776	1796	1714
65°	1600	1640	1537
70°	1358	1418	1304
75°	1052	1129	1003
80°	783	817	710
85°	483	517	448



TEST NUMBER: P413216

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.5
10°-20°	442.3	10.0
20°-30°	677.3	15.4
30°-40°	814.8	18.5
40°-50°	830.8	18.8
50°-60°	720.3	16.3
60°-70°	499.4	11.3
70°-80°	228.1	5.2
80°-90°	42.1	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°	1272.5	28.9
0°-40°	2087.3	47.4
0°-60°	3638.4	82.5
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1609	1609	1608	1607	1609	153
15°	1568	1568	1565	1564	1565	443
25°	1472	1476	1477	1464	1457	678
35°	1298	1312	1314	1297	1278	811
45°	1076	1089	1087	1073	1053	829
55°	811	816	818	798	787	722
65°	503	513	515	498	483	497
75°	202	214	217	210	193	221
85°	31	32	34	32	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.7	1612.7	1612.7	1612.7	1612.7
2.5°	1612.7	1612.7	1611.8	1610.9	1613.6
5°	1608.7	1608.7	1607.8	1606.9	1609.1
7.5°	1602.4	1602.0	1601.1	1600.2	1601.5
10°	1593.5	1593.0	1591.2	1590.8	1592.6
12.5°	1582.3	1581.8	1579.2	1579.2	1580.5
15°	1568.0	1567.6	1564.9	1563.5	1565.3
17.5°	1551.9	1551.5	1548.3	1544.8	1545.7
20°	1530.5	1530.5	1528.2	1522.9	1521.5
22.5°	1504.6	1505.9	1505.9	1495.6	1491.6
25°	1472.0	1476.0	1477.3	1464.4	1456.8
27.5°	1434.9	1441.1	1444.7	1428.2	1418.3
30°	1392.4	1402.7	1407.2	1389.3	1375.0
32.5°	1346.0	1358.9	1364.3	1346.9	1328.6
35°	1297.7	1311.6	1314.3	1297.3	1278.1
37.5°	1246.4	1260.7	1264.2	1249.0	1225.4
40°	1192.3	1206.6	1206.6	1194.1	1170.9
42.5°	1135.1	1150.3	1149.9	1134.7	1113.7
45°	1075.7	1089.1	1087.3	1072.6	1053.4
47.5°	1014.5	1023.0	1025.2	1007.8	989.5
50°	947.5	956.0	958.2	938.6	924.3
52.5°	881.4	886.7	889.9	867.1	856.8
55°	810.8	815.7	818.0	797.8	786.7
57.5°	736.2	742.5	745.1	725.0	712.5
60°	659.8	666.5	667.4	648.6	637.0
62.5°	582.1	591.0	592.8	574.0	560.2
65°	502.6	513.3	515.1	497.6	482.9
67.5°	423.0	437.3	437.8	423.5	406.1
70°	345.3	361.0	360.5	348.4	331.5
72.5°	271.2	285.5	288.6	277.4	260.9
75°	202.4	213.5	217.1	210.0	193.0
77.5°	143.8	154.1	157.2	150.5	138.0
80°	101.0	101.4	105.4	100.1	91.6
82.5°	62.5	61.6	63.0	60.8	55.8
85°	31.3	32.2	33.5	31.7	29.0
87.5°	10.7	11.2	12.1	12.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)