

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: P413204

Luminaire Tested: **24PD-45-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413204
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-45-PC3-L930
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

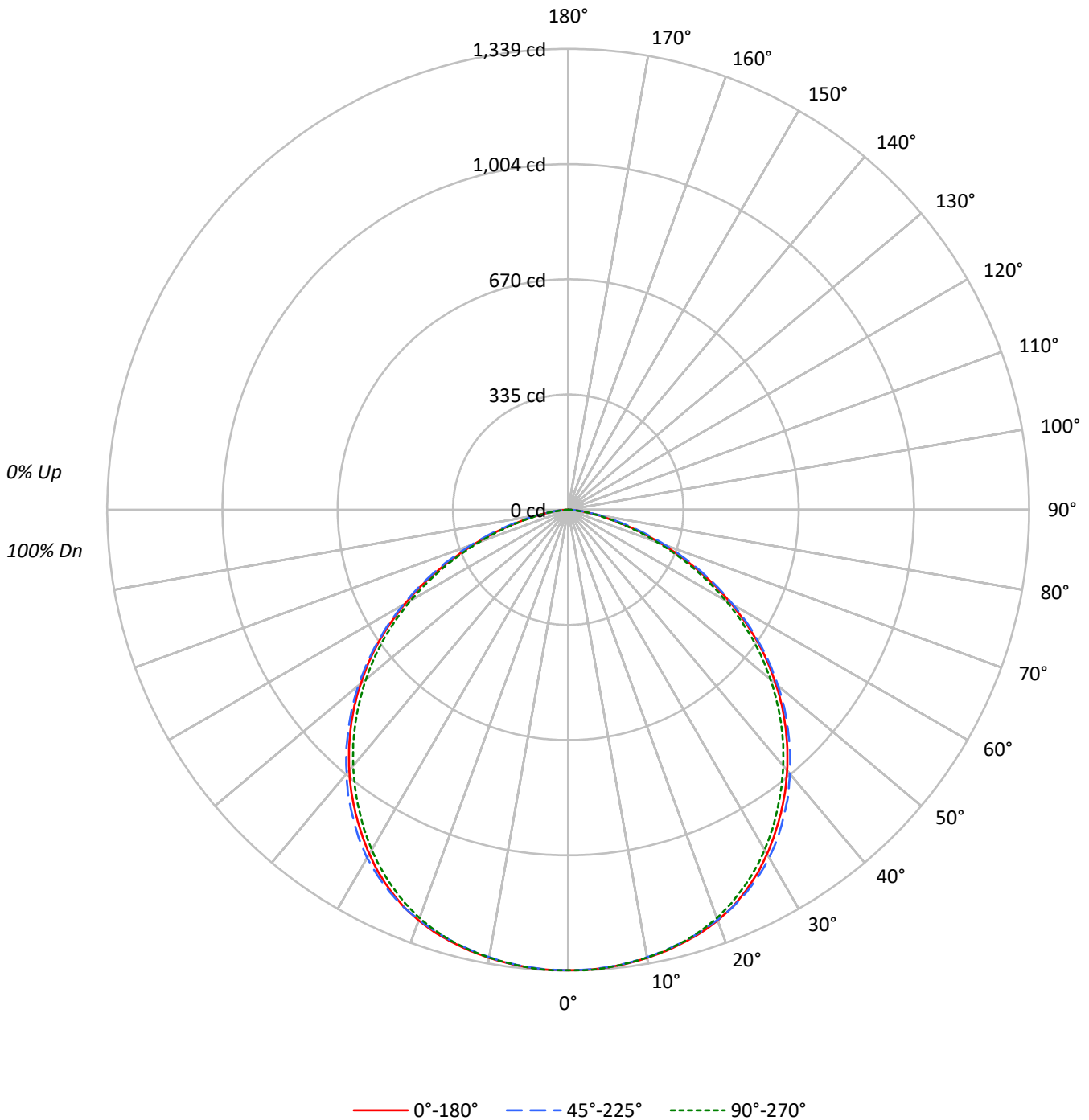
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 109.5 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): 33.4
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

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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°	1801	1801	1801
5°	1803	1802	1803
10°	1807	1804	1806
15°	1813	1809	1809
20°	1819	1816	1808
25°	1813	1820	1795
30°	1795	1814	1773
35°	1769	1791	1742
40°	1738	1759	1707
45°	1699	1717	1663
50°	1646	1665	1605
55°	1578	1592	1531
60°	1473	1490	1422
65°	1328	1361	1276
70°	1127	1177	1082
75°	873	937	832
80°	649	678	589
85°	401	429	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	3.5
10°-20°	367.0	10.0
20°-30°	562.0	15.4
30°-40°	676.1	18.5
40°-50°	689.5	18.8
50°-60°	597.7	16.3
60°-70°	414.4	11.3
70°-80°	189.3	5.2
80°-90°	35.0	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°	1056.0	28.9
0°-40°	1732.2	47.4
0°-60°	3019.4	82.5
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1335	1335	1334	1334	1335	127
15°	1301	1301	1299	1298	1299	368
25°	1222	1225	1226	1215	1209	562
35°	1077	1088	1091	1077	1061	673
45°	893	904	902	890	874	688
55°	673	677	679	662	653	599
65°	417	426	427	413	401	412
75°	168	177	180	174	160	184
85°	26	27	28	26	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1338.3	1338.3	1337.5	1336.8	1339.0
5°	1334.9	1334.9	1334.2	1333.5	1335.3
7.5°	1329.8	1329.4	1328.6	1327.9	1329.0
10°	1322.3	1322.0	1320.5	1320.1	1321.6
12.5°	1313.1	1312.7	1310.5	1310.5	1311.6
15°	1301.2	1300.8	1298.6	1297.5	1299.0
17.5°	1287.9	1287.5	1284.9	1281.9	1282.7
20°	1270.1	1270.1	1268.2	1263.8	1262.7
22.5°	1248.6	1249.7	1249.7	1241.2	1237.8
25°	1221.5	1224.8	1226.0	1215.2	1208.9
27.5°	1190.7	1195.9	1198.9	1185.2	1177.0
30°	1155.5	1164.0	1167.8	1152.9	1141.1
32.5°	1117.0	1127.7	1132.2	1117.7	1102.5
35°	1076.9	1088.4	1090.6	1076.6	1060.6
37.5°	1034.3	1046.2	1049.1	1036.5	1016.9
40°	989.4	1001.3	1001.3	990.9	971.6
42.5°	942.0	954.6	954.2	941.6	924.2
45°	892.7	903.8	902.3	890.1	874.1
47.5°	841.9	848.9	850.8	836.3	821.1
50°	786.3	793.3	795.2	778.9	767.0
52.5°	731.4	735.9	738.5	719.6	711.0
55°	672.8	676.9	678.8	662.1	652.8
57.5°	610.9	616.1	618.4	601.7	591.3
60°	547.5	553.1	553.8	538.3	528.6
62.5°	483.0	490.5	491.9	476.4	464.9
65°	417.1	426.0	427.4	413.0	400.7
67.5°	351.1	362.9	363.3	351.4	337.0
70°	286.6	299.5	299.2	289.2	275.1
72.5°	225.0	236.9	239.5	230.2	216.5
75°	167.9	177.2	180.2	174.2	160.1
77.5°	119.4	127.9	130.5	124.9	114.6
80°	83.8	84.2	87.5	83.0	76.0
82.5°	51.9	51.2	52.3	50.4	46.3
85°	26.0	26.7	27.8	26.3	24.1
87.5°	8.9	9.3	10.0	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)