

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: P412862

Luminaire Tested: **24PD-45-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-45-PP3-L930
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

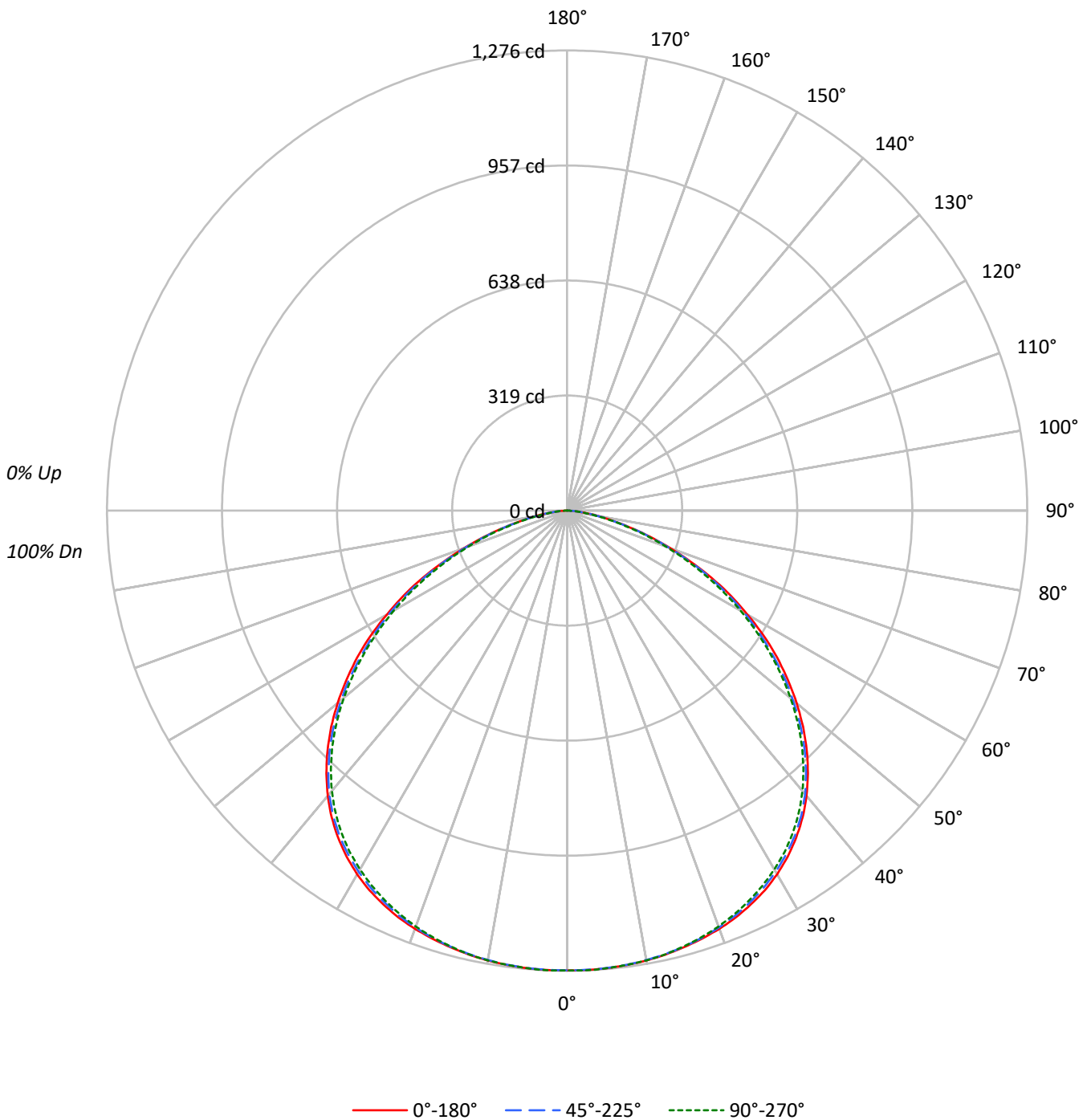
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3710.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1715	1715	1715
5°	1720	1720	1721
10°	1731	1729	1730
15°	1746	1744	1742
20°	1767	1761	1757
25°	1789	1780	1772
30°	1809	1797	1785
35°	1819	1808	1792
40°	1814	1803	1783
45°	1788	1771	1751
50°	1739	1711	1693
55°	1667	1627	1606
60°	1554	1527	1496
65°	1408	1380	1340
70°	1202	1180	1142
75°	939	929	885
80°	693	663	626
85°	418	418	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.3
10°-20°	354.0	9.5
20°-30°	553.3	14.9
30°-40°	687.6	18.5
40°-50°	716.4	19.3
50°-60°	621.7	16.8
60°-70°	427.5	11.5
70°-80°	192.9	5.2
80°-90°	35.4	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°	1028.5	27.7
0°-40°	1716.2	46.3
0°-60°	3054.3	82.3
0°-90°	3710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1274	1274	1273	1272	1274	121
15°	1254	1254	1252	1250	1251	355
25°	1205	1205	1199	1194	1194	556
35°	1107	1107	1101	1094	1091	692
45°	940	940	931	924	920	723
55°	711	707	694	686	685	633
65°	442	440	433	423	421	437
75°	181	181	179	174	170	197
85°	27	27	27	27	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1275.4	1275.4	1274.6	1273.5	1276.1
5°	1273.5	1273.9	1273.2	1272.1	1273.9
7.5°	1270.9	1271.3	1270.2	1269.1	1270.6
10°	1266.9	1266.5	1265.4	1264.6	1266.5
12.5°	1260.9	1260.6	1259.4	1258.7	1260.2
15°	1253.5	1253.5	1251.7	1250.5	1250.9
17.5°	1244.6	1244.6	1242.0	1239.4	1240.2
20°	1234.2	1233.9	1230.2	1227.6	1227.2
22.5°	1221.3	1221.3	1216.1	1212.7	1211.6
25°	1205.3	1204.9	1199.0	1194.2	1193.5
27.5°	1187.2	1186.4	1179.4	1174.5	1172.7
30°	1164.5	1163.8	1156.4	1151.2	1149.0
32.5°	1137.8	1139.0	1130.4	1124.5	1122.3
35°	1107.4	1107.4	1100.8	1094.5	1090.8
37.5°	1072.6	1072.6	1066.3	1060.0	1055.5
40°	1032.9	1033.3	1026.6	1018.8	1015.1
42.5°	988.4	989.2	980.3	974.0	969.9
45°	939.9	940.2	930.6	923.5	920.2
47.5°	887.2	886.5	875.7	869.8	866.4
50°	830.9	829.4	817.5	811.9	809.0
52.5°	771.9	768.9	758.6	750.4	747.8
55°	710.7	706.7	693.7	685.5	684.8
57.5°	647.0	642.1	631.4	623.6	620.6
60°	577.3	576.1	567.3	558.0	555.8
62.5°	512.0	508.7	500.9	489.8	488.7
65°	442.3	440.5	433.4	423.0	420.8
67.5°	370.4	372.2	366.3	357.0	354.1
70°	305.5	306.6	299.9	291.4	290.3
72.5°	240.2	242.1	236.5	231.0	229.9
75°	180.6	181.3	178.7	173.9	170.2
77.5°	128.3	130.9	127.9	124.6	121.6
80°	89.4	85.3	85.6	84.2	80.8
82.5°	53.8	51.9	51.5	50.1	48.6
85°	27.1	26.7	27.1	26.7	25.2
87.5°	8.9	9.6	10.0	10.0	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)