

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: P412854

Luminaire Tested: **24PD-40-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412854
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-40-PP3-L935
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

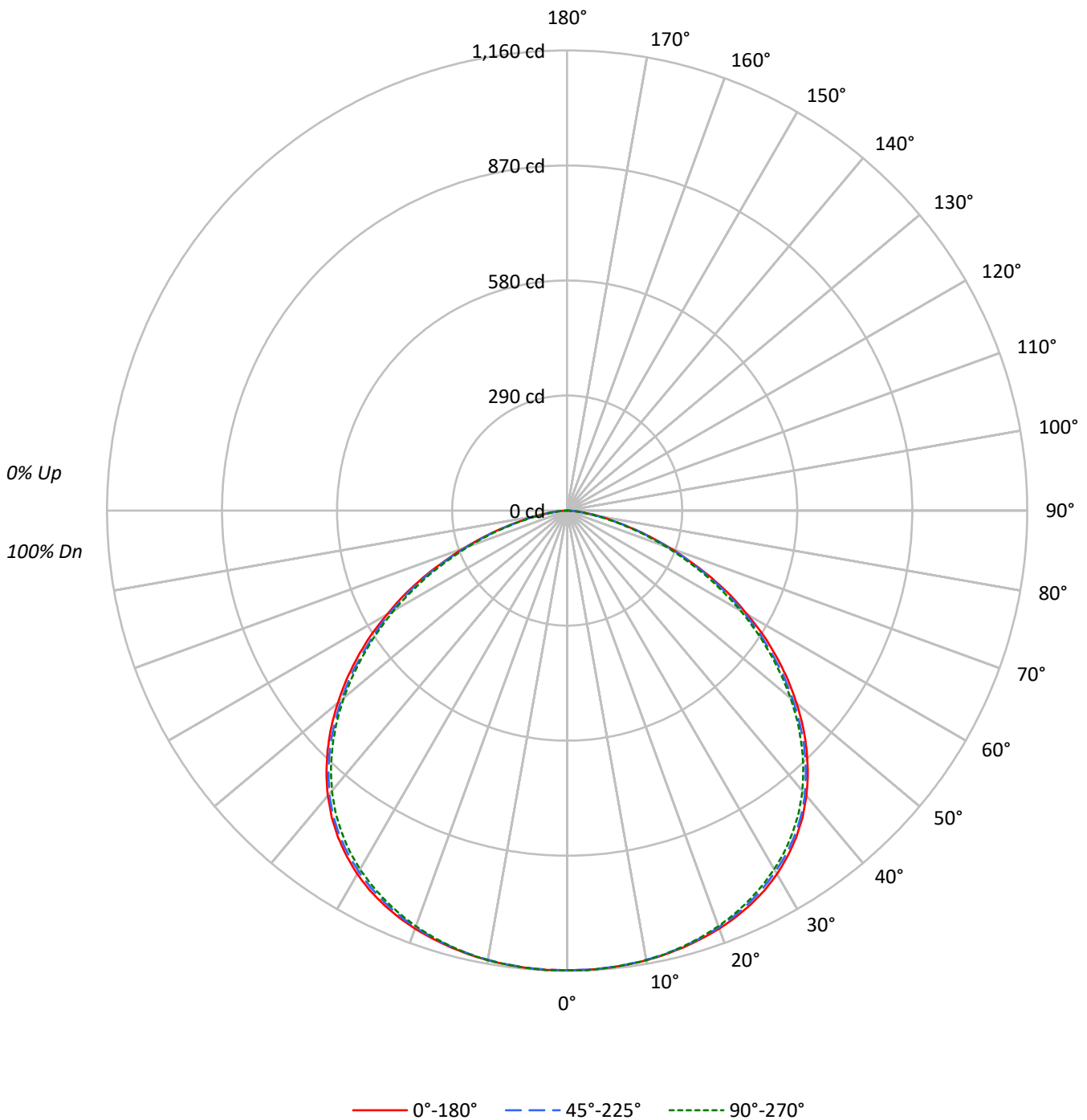
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 113.5 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): 29.7
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°	1559	1559	1559
5°	1563	1562	1563
10°	1573	1571	1572
15°	1587	1584	1583
20°	1606	1601	1597
25°	1626	1617	1610
30°	1644	1632	1622
35°	1653	1643	1628
40°	1648	1638	1620
45°	1625	1609	1591
50°	1580	1555	1539
55°	1515	1479	1460
60°	1411	1387	1359
65°	1280	1254	1217
70°	1092	1072	1038
75°	853	844	804
80°	629	603	569
85°	380	380	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	321.6	9.5
20°-30°	502.7	14.9
30°-40°	624.8	18.5
40°-50°	651.0	19.3
50°-60°	564.9	16.8
60°-70°	388.4	11.5
70°-80°	175.3	5.2
80°-90°	32.1	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°	934.6	27.7
0°-40°	1559.4	46.3
0°-60°	2775.2	82.3
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1157	1158	1157	1156	1158	110
15°	1139	1139	1137	1136	1137	322
25°	1095	1095	1090	1085	1084	505
35°	1006	1006	1000	994	991	629
45°	854	854	846	839	836	657
55°	646	642	630	623	622	576
65°	402	400	394	384	382	397
75°	164	165	162	158	155	179
85°	25	24	25	24	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.5	1158.5	1158.5	1158.5	1158.5
2.5°	1158.9	1158.9	1158.2	1157.2	1159.5
5°	1157.2	1157.5	1156.8	1155.8	1157.5
7.5°	1154.8	1155.1	1154.1	1153.1	1154.5
10°	1151.1	1150.8	1149.8	1149.1	1150.8
12.5°	1145.7	1145.4	1144.4	1143.7	1145.0
15°	1139.0	1139.0	1137.3	1136.3	1136.6
17.5°	1130.9	1130.9	1128.5	1126.2	1126.8
20°	1121.5	1121.1	1117.8	1115.4	1115.1
22.5°	1109.7	1109.7	1105.0	1101.9	1100.9
25°	1095.2	1094.8	1089.5	1085.1	1084.4
27.5°	1078.7	1078.0	1071.6	1067.2	1065.5
30°	1058.1	1057.5	1050.7	1046.0	1044.0
32.5°	1033.9	1034.9	1027.1	1021.7	1019.7
35°	1006.2	1006.2	1000.2	994.5	991.1
37.5°	974.6	974.6	968.9	963.1	959.1
40°	938.5	938.9	932.8	925.7	922.4
42.5°	898.1	898.8	890.7	885.0	881.3
45°	854.0	854.3	845.6	839.2	836.1
47.5°	806.1	805.5	795.7	790.3	787.3
50°	754.9	753.6	742.8	737.8	735.1
52.5°	701.4	698.7	689.2	681.8	679.5
55°	645.8	642.1	630.3	622.9	622.2
57.5°	587.8	583.5	573.7	566.6	563.9
60°	524.5	523.5	515.4	507.0	505.0
62.5°	465.2	462.2	455.1	445.0	444.0
65°	401.9	400.2	393.8	384.4	382.4
67.5°	336.5	338.2	332.8	324.4	321.7
70°	277.6	278.6	272.5	264.8	263.8
72.5°	218.3	220.0	214.9	209.9	208.9
75°	164.1	164.7	162.4	158.0	154.6
77.5°	116.6	118.9	116.2	113.2	110.5
80°	81.2	77.5	77.8	76.5	73.4
82.5°	48.8	47.2	46.8	45.5	44.1
85°	24.6	24.3	24.6	24.3	22.9
87.5°	8.1	8.8	9.1	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)