

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: P412847

Luminaire Tested: **24PD-35-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412847
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-35-PP3-L950
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

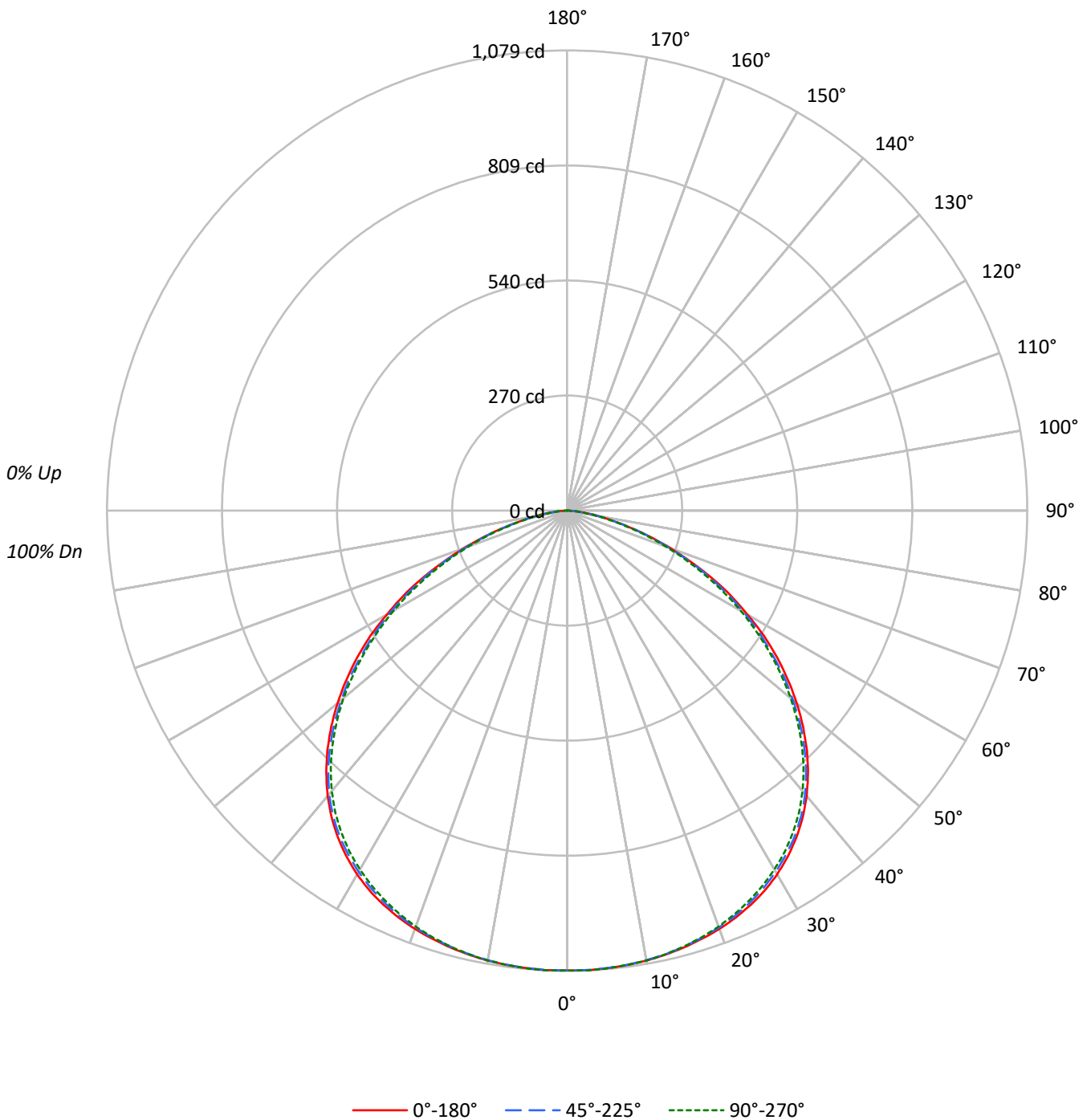
Lumens per Lamp: N/A
Luminaire Lumens: 3138.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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°	1451	1451	1451
5°	1455	1454	1455
10°	1464	1462	1464
15°	1477	1475	1474
20°	1495	1490	1486
25°	1514	1506	1499
30°	1530	1520	1510
35°	1539	1529	1515
40°	1535	1525	1508
45°	1513	1498	1481
50°	1471	1447	1432
55°	1410	1376	1359
60°	1314	1291	1265
65°	1191	1167	1133
70°	1017	998	966
75°	794	786	748
80°	586	561	530
85°	354	354	329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.3
10°-20°	299.4	9.5
20°-30°	468.0	14.9
30°-40°	581.6	18.5
40°-50°	606.0	19.3
50°-60°	525.8	16.8
60°-70°	361.6	11.5
70°-80°	163.2	5.2
80°-90°	29.9	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°	870.0	27.7
0°-40°	1451.6	46.3
0°-60°	2583.4	82.3
0°-90°	3138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1077	1078	1077	1076	1078	103
15°	1060	1060	1059	1058	1058	300
25°	1020	1019	1014	1010	1009	470
35°	937	937	931	926	923	585
45°	795	795	787	781	778	612
55°	601	598	587	580	579	536
65°	374	372	367	358	356	369
75°	153	153	151	147	144	166
85°	23	23	23	23	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.4	1078.4	1078.4	1078.4	1078.4
2.5°	1078.8	1078.8	1078.1	1077.2	1079.4
5°	1077.2	1077.5	1076.9	1075.9	1077.5
7.5°	1075.0	1075.3	1074.4	1073.4	1074.7
10°	1071.5	1071.2	1070.3	1069.7	1071.2
12.5°	1066.5	1066.2	1065.3	1064.6	1065.9
15°	1060.3	1060.3	1058.7	1057.7	1058.1
17.5°	1052.7	1052.7	1050.5	1048.3	1049.0
20°	1043.9	1043.6	1040.5	1038.3	1038.0
22.5°	1033.0	1033.0	1028.6	1025.8	1024.8
25°	1019.5	1019.2	1014.2	1010.1	1009.4
27.5°	1004.1	1003.5	997.5	993.5	991.9
30°	985.0	984.4	978.1	973.7	971.8
32.5°	962.4	963.4	956.1	951.1	949.2
35°	936.7	936.7	931.1	925.7	922.6
37.5°	907.2	907.2	901.9	896.6	892.8
40°	873.7	874.0	868.3	861.7	858.6
42.5°	836.0	836.7	829.1	823.8	820.4
45°	795.0	795.3	787.1	781.2	778.3
47.5°	750.4	749.8	740.7	735.7	732.9
50°	702.8	701.5	691.5	686.8	684.3
52.5°	652.9	650.4	641.6	634.7	632.5
55°	601.2	597.7	586.7	579.8	579.2
57.5°	547.2	543.1	534.0	527.5	525.0
60°	488.3	487.3	479.8	472.0	470.1
62.5°	433.1	430.2	423.7	414.3	413.3
65°	374.1	372.5	366.6	357.8	355.9
67.5°	313.3	314.8	309.8	302.0	299.5
70°	258.4	259.3	253.7	246.5	245.5
72.5°	203.2	204.8	200.1	195.4	194.4
75°	152.7	153.3	151.2	147.1	143.9
77.5°	108.5	110.7	108.2	105.4	102.9
80°	75.6	72.1	72.4	71.2	68.4
82.5°	45.5	43.9	43.6	42.3	41.1
85°	22.9	22.6	22.9	22.6	21.3
87.5°	7.5	8.2	8.5	8.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)