

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: P412502

Luminaire Tested: **24PD-35-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PB1-L930
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

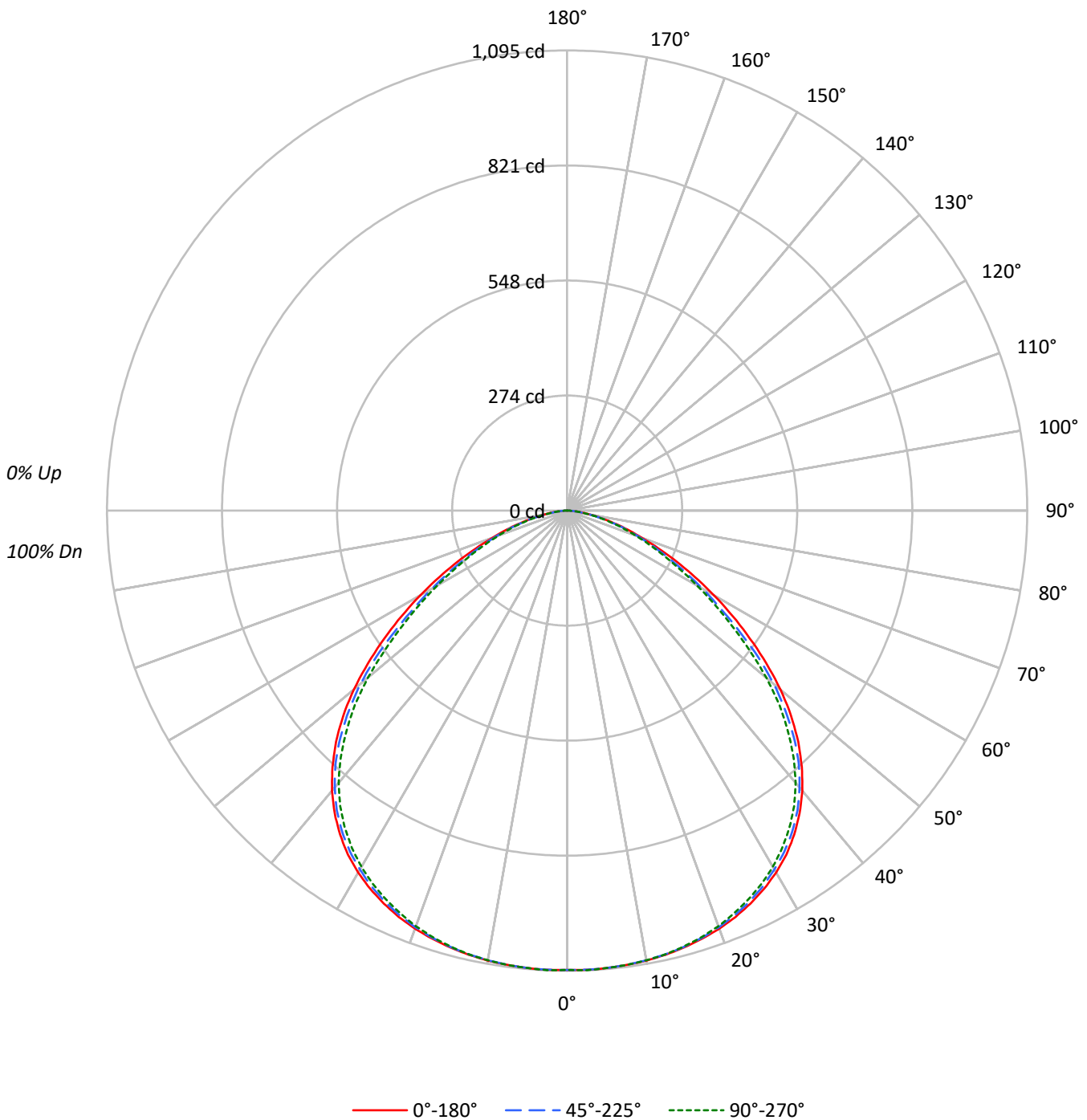
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2909.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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

TEST NUMBER: P412502
CATALOG NUMBER: 24PD-35-PB1-L930

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1471	1471	1471
5°	1476	1476	1476
10°	1486	1484	1485
15°	1499	1497	1496
20°	1516	1511	1507
25°	1532	1524	1515
30°	1545	1532	1521
35°	1547	1533	1514
40°	1529	1511	1486
45°	1479	1452	1415
50°	1387	1344	1295
55°	1247	1172	1124
60°	1085	999	961
65°	913	845	808
70°	744	707	678
75°	596	575	551
80°	458	422	411
85°	286	278	278



TEST NUMBER: P412502

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.6
10°-20°	303.8	10.4
20°-30°	473.3	16.3
30°-40°	582.2	20.0
40°-50°	584.8	20.1
50°-60°	450.7	15.5
60°-70°	267.6	9.2
70°-80°	119.1	4.1
80°-90°	23.3	0.8
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°	881.2	30.3
0°-40°	1463.4	50.3
0°-60°	2499.0	85.9
0°-90°	2909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1093	1093	1093	1092	1093	104
15°	1076	1076	1075	1073	1074	304
25°	1032	1032	1027	1022	1021	476
35°	942	940	934	926	922	588
45°	777	775	763	750	744	597
55°	531	521	500	485	479	475
65°	287	274	265	255	254	287
75°	115	112	111	107	106	124
85°	18	18	18	17	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.2	1093.2	1093.2	1093.2	1093.2
2.5°	1093.8	1093.5	1093.5	1092.4	1094.7
5°	1092.7	1092.9	1092.7	1091.5	1092.7
7.5°	1090.3	1090.6	1090.1	1088.9	1090.1
10°	1087.4	1087.4	1086.3	1085.7	1086.6
12.5°	1082.5	1082.5	1081.4	1080.5	1081.4
15°	1076.1	1076.1	1074.7	1073.0	1073.8
17.5°	1068.3	1068.3	1066.0	1063.7	1064.3
20°	1058.8	1058.5	1055.3	1052.1	1052.4
22.5°	1046.6	1046.3	1042.2	1038.5	1037.3
25°	1031.8	1031.5	1026.6	1022.0	1020.8
27.5°	1014.7	1013.6	1008.1	1002.8	1001.7
30°	994.4	993.6	986.3	981.1	978.8
32.5°	971.0	968.6	962.0	955.6	952.4
35°	941.7	940.2	933.6	925.8	922.0
37.5°	908.7	907.2	900.0	891.3	886.9
40°	870.4	869.3	860.3	851.3	845.8
42.5°	826.4	825.5	815.9	803.5	797.7
45°	777.4	775.4	763.2	750.5	743.5
47.5°	722.9	719.5	704.7	692.5	685.0
50°	662.7	658.0	642.1	626.4	618.6
52.5°	597.5	589.4	572.8	554.9	547.3
55°	531.4	521.3	499.8	484.8	479.3
57.5°	466.8	452.0	431.7	421.0	415.5
60°	403.3	387.1	371.2	360.7	357.0
62.5°	342.8	329.2	315.5	305.1	302.8
65°	286.9	274.4	265.4	255.3	253.8
67.5°	234.7	228.9	220.8	212.1	210.9
70°	189.2	186.9	179.6	174.4	172.4
72.5°	151.0	148.6	143.4	139.7	139.1
75°	114.7	112.4	110.7	106.9	106.0
77.5°	81.7	82.0	80.6	78.5	79.1
80°	59.1	55.6	54.5	53.3	53.0
82.5°	36.2	34.2	33.3	33.0	33.6
85°	18.5	17.7	18.0	17.1	18.0
87.5°	6.4	6.4	6.7	6.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)