

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: P412845

Luminaire Tested: **24PD-35-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

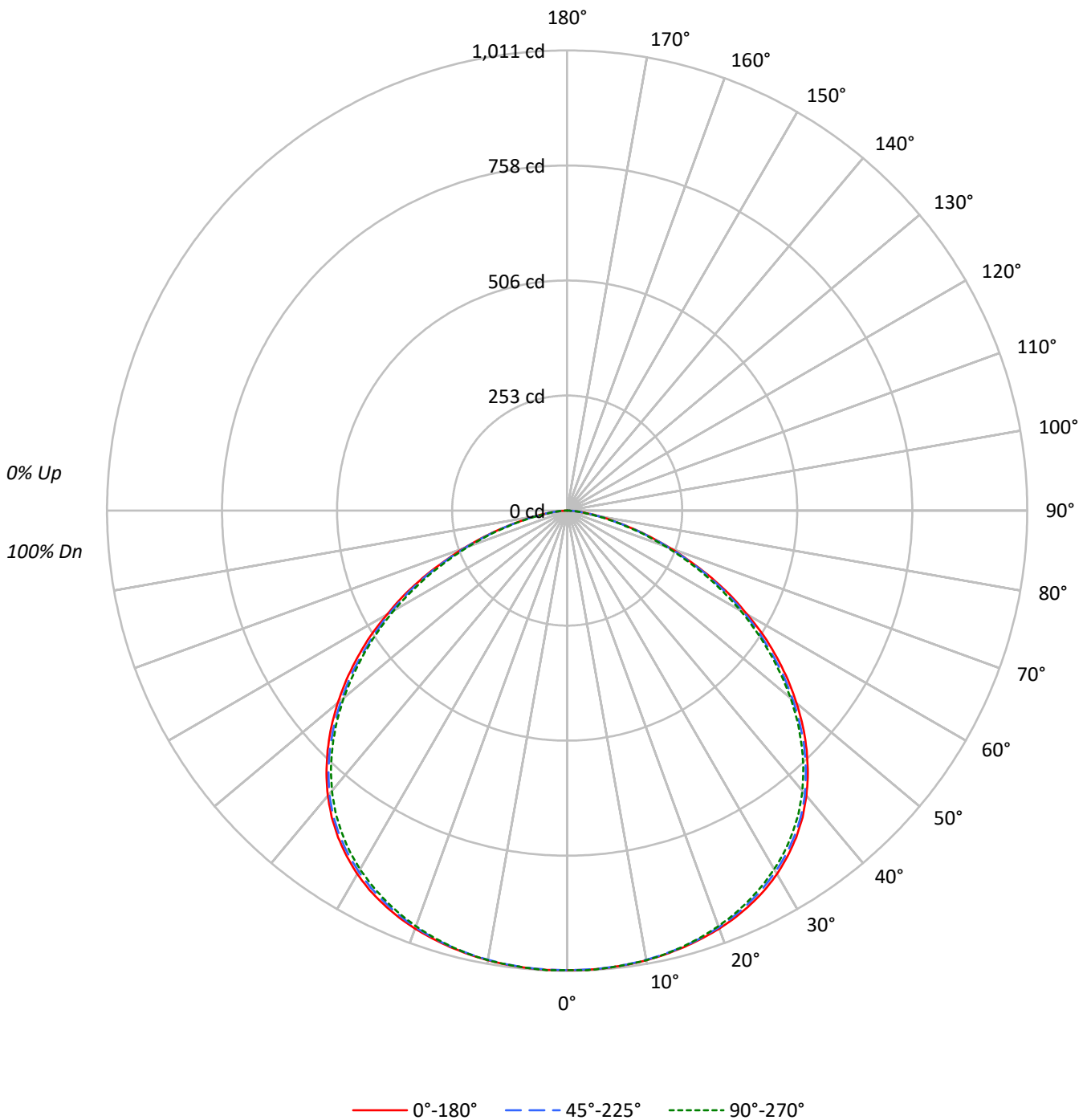
Test Method: LM-79-08  
Report Number: P412845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PP3-L935  
Description: 3500 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: 2938.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1359	1359	1359
5°	1362	1362	1363
10°	1371	1369	1370
15°	1383	1381	1380
20°	1399	1395	1391
25°	1417	1410	1403
30°	1433	1423	1414
35°	1441	1432	1419
40°	1437	1428	1412
45°	1416	1402	1387
50°	1377	1355	1341
55°	1320	1289	1272
60°	1230	1209	1184
65°	1115	1093	1061
70°	952	934	904
75°	743	736	701
80°	549	525	496
85°	330	330	309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.3
10°-20°	280.3	9.5
20°-30°	438.1	14.9
30°-40°	544.5	18.5
40°-50°	567.4	19.3
50°-60°	492.3	16.8
60°-70°	338.5	11.5
70°-80°	152.8	5.2
80°-90°	28.0	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°	814.5	27.7
0°-40°	1359.0	46.3
0°-60°	2418.7	82.3
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1008	1009	1008	1007	1009	96
15°	993	993	991	990	991	281
25°	954	954	950	946	945	440
35°	877	877	872	867	864	548
45°	744	745	737	731	729	573
55°	563	560	549	543	542	502
65°	350	349	343	335	333	346
75°	143	144	142	138	135	156
85°	21	21	21	21	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1009.7	1009.7	1009.7	1009.7	1009.7
2.5°	1010.0	1010.0	1009.4	1008.5	1010.6
5°	1008.5	1008.8	1008.2	1007.4	1008.8
7.5°	1006.5	1006.8	1005.9	1005.0	1006.2
10°	1003.2	1003.0	1002.1	1001.5	1003.0
12.5°	998.5	998.3	997.4	996.8	998.0
15°	992.7	992.7	991.2	990.3	990.6
17.5°	985.6	985.6	983.6	981.5	982.1
20°	977.4	977.1	974.2	972.1	971.8
22.5°	967.1	967.1	963.0	960.4	959.5
25°	954.5	954.2	949.5	945.7	945.1
27.5°	940.1	939.5	934.0	930.1	928.7
30°	922.2	921.6	915.8	911.6	909.9
32.5°	901.1	902.0	895.2	890.5	888.7
35°	877.0	877.0	871.7	866.7	863.8
37.5°	849.4	849.4	844.4	839.4	835.9
40°	818.0	818.3	813.0	806.8	803.9
42.5°	782.7	783.3	776.3	771.3	768.1
45°	744.3	744.6	736.9	731.4	728.7
47.5°	702.6	702.0	693.5	688.8	686.2
50°	658.0	656.8	647.4	643.0	640.6
52.5°	611.3	608.9	600.7	594.3	592.2
55°	562.8	559.6	549.3	542.9	542.3
57.5°	512.3	508.5	500.0	493.8	491.5
60°	457.1	456.3	449.2	441.9	440.1
62.5°	405.5	402.8	396.7	387.9	387.0
65°	350.3	348.8	343.2	335.0	333.2
67.5°	293.3	294.8	290.1	282.7	280.4
70°	241.9	242.8	237.5	230.8	229.9
72.5°	190.3	191.7	187.3	182.9	182.0
75°	143.0	143.6	141.5	137.7	134.8
77.5°	101.6	103.6	101.3	98.7	96.3
80°	70.8	67.5	67.8	66.6	64.0
82.5°	42.6	41.1	40.8	39.6	38.5
85°	21.4	21.1	21.4	21.1	20.0
87.5°	7.0	7.6	7.9	7.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)