

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: P412504

Luminaire Tested: **24PD-35-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

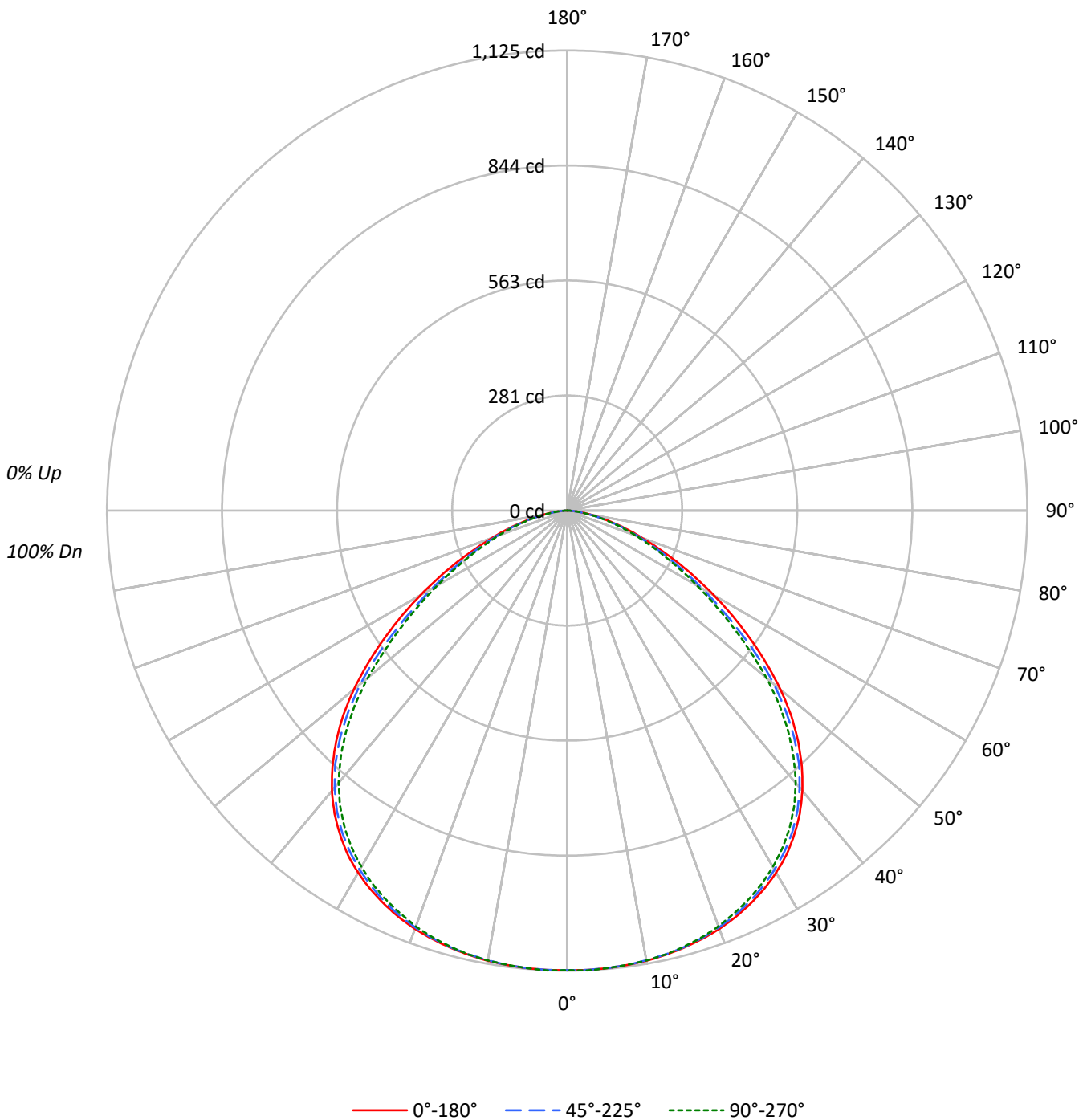
Test Method: LM-79-08  
Report Number: P412504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PB1-L940  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2990.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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: P412504  
CATALOG NUMBER: 24PD-35-PB1-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P412504

CATALOG NUMBER: 24PD-35-PB1-L940

**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°	1512	1512	1512
5°	1517	1517	1517
10°	1527	1525	1526
15°	1541	1539	1537
20°	1558	1553	1549
25°	1574	1567	1558
30°	1588	1575	1563
35°	1590	1576	1557
40°	1571	1553	1527
45°	1521	1493	1454
50°	1426	1382	1331
55°	1281	1205	1156
60°	1116	1027	987
65°	939	869	831
70°	765	726	697
75°	613	592	567
80°	471	434	422
85°	295	286	286



TEST NUMBER: P412504

CATALOG NUMBER: 24PD-35-PB1-L940

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.6
10°-20°	312.3	10.4
20°-30°	486.5	16.3
30°-40°	598.4	20.0
40°-50°	601.1	20.1
50°-60°	463.3	15.5
60°-70°	275.0	9.2
70°-80°	122.5	4.1
80°-90°	23.9	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°	905.7	30.3
0°-40°	1504.2	50.3
0°-60°	2568.6	85.9
0°-90°	2990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1123	1123	1123	1122	1123	107
15°	1106	1106	1105	1103	1104	313
25°	1060	1060	1055	1050	1049	489
35°	968	966	960	952	948	604
45°	799	797	784	771	764	613
55°	546	536	514	498	493	488
65°	295	282	273	262	261	295
75°	118	116	114	110	109	128
85°	19	18	18	18	18	25
90°	0	0	0	0	0	



TEST NUMBER: P412504

CATALOG NUMBER: 24PD-35-PB1-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1124.3	1124.0	1124.0	1122.8	1125.2
5°	1123.1	1123.4	1123.1	1121.9	1123.1
7.5°	1120.7	1121.0	1120.4	1119.2	1120.4
10°	1117.7	1117.7	1116.5	1115.9	1116.8
12.5°	1112.7	1112.7	1111.5	1110.6	1111.5
15°	1106.1	1106.1	1104.6	1102.8	1103.7
17.5°	1098.1	1098.1	1095.7	1093.3	1093.9
20°	1088.2	1087.9	1084.7	1081.4	1081.7
22.5°	1075.7	1075.4	1071.3	1067.4	1066.2
25°	1060.5	1060.2	1055.2	1050.4	1049.2
27.5°	1043.0	1041.8	1036.1	1030.8	1029.6
30°	1022.1	1021.2	1013.8	1008.4	1006.0
32.5°	998.0	995.6	988.8	982.2	978.9
35°	967.9	966.4	959.6	951.5	947.7
37.5°	934.0	932.5	925.0	916.1	911.6
40°	894.7	893.5	884.2	875.0	869.3
42.5°	849.4	848.5	838.7	825.9	819.9
45°	799.1	797.0	784.5	771.4	764.2
47.5°	743.1	739.5	724.3	711.8	704.0
50°	681.1	676.4	660.0	643.9	635.8
52.5°	614.1	605.8	588.8	570.3	562.6
55°	546.2	535.8	513.7	498.3	492.6
57.5°	479.8	464.6	443.8	432.7	427.1
60°	414.6	397.9	381.5	370.8	366.9
62.5°	352.3	338.3	324.3	313.6	311.2
65°	294.8	282.0	272.8	262.4	260.9
67.5°	241.2	235.3	226.9	218.0	216.8
70°	194.5	192.1	184.6	179.3	177.2
72.5°	155.2	152.8	147.4	143.5	143.0
75°	117.9	115.6	113.8	109.9	109.0
77.5°	84.0	84.3	82.8	80.7	81.3
80°	60.8	57.2	56.0	54.8	54.5
82.5°	37.2	35.1	34.2	34.0	34.5
85°	19.1	18.2	18.5	17.6	18.5
87.5°	6.6	6.6	6.8	6.6	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)