

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: P412501

Luminaire Tested: **24PD-35-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

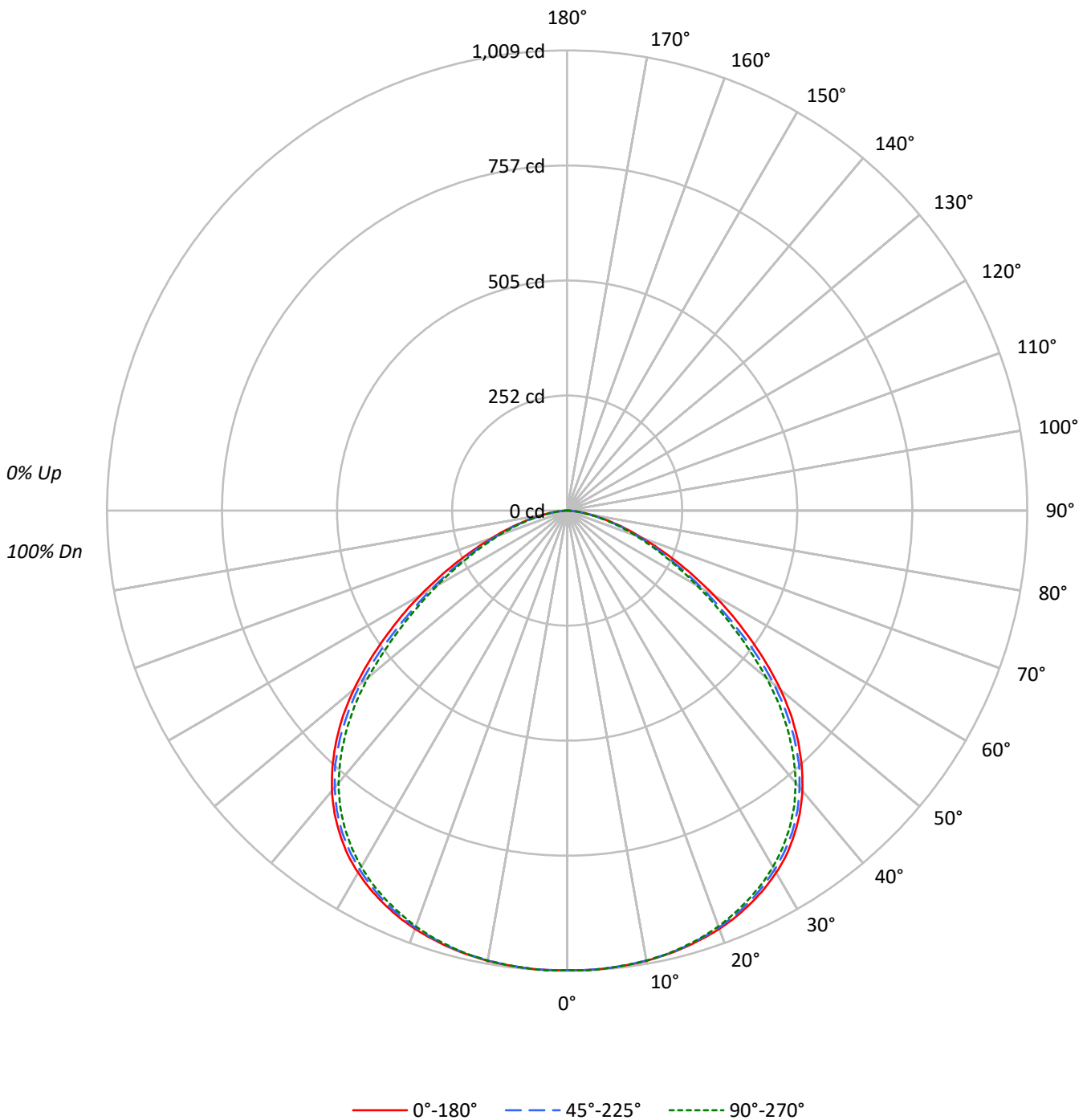
Test Method: LM-79-08  
Report Number: P412501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PB1-L927  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2682.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

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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	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°	1356	1356	1356
5°	1361	1361	1361
10°	1370	1368	1369
15°	1382	1380	1379
20°	1398	1393	1389
25°	1412	1405	1397
30°	1424	1413	1402
35°	1426	1414	1396
40°	1410	1393	1370
45°	1364	1339	1304
50°	1279	1239	1194
55°	1149	1081	1037
60°	1001	921	886
65°	842	779	745
70°	686	651	625
75°	550	530	508
80°	422	389	379
85°	264	256	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	3.6
10°-20°	280.1	10.4
20°-30°	436.4	16.3
30°-40°	536.8	20.0
40°-50°	539.2	20.1
50°-60°	415.6	15.5
60°-70°	246.7	9.2
70°-80°	109.8	4.1
80°-90°	21.5	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°	812.4	30.3
0°-40°	1349.2	50.3
0°-60°	2304.0	85.9
0°-90°	2682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1007	1008	1007	1006	1007	96
15°	992	992	991	989	990	281
25°	951	951	946	942	941	439
35°	868	867	861	854	850	542
45°	717	715	704	692	686	550
55°	490	481	461	447	442	438
65°	264	253	245	235	234	264
75°	106	104	102	99	98	115
85°	17	16	17	16	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1008.5	1008.2	1008.2	1007.1	1009.3
5°	1007.4	1007.7	1007.4	1006.3	1007.4
7.5°	1005.3	1005.5	1005.0	1003.9	1005.0
10°	1002.6	1002.6	1001.5	1001.0	1001.8
12.5°	998.0	998.0	997.0	996.2	997.0
15°	992.2	992.2	990.8	989.2	990.0
17.5°	985.0	985.0	982.8	980.7	981.2
20°	976.1	975.9	972.9	970.0	970.3
22.5°	964.9	964.7	960.9	957.4	956.4
25°	951.3	951.0	946.5	942.2	941.1
27.5°	935.5	934.5	929.4	924.6	923.5
30°	916.8	916.0	909.4	904.5	902.4
32.5°	895.2	893.1	886.9	881.0	878.1
35°	868.2	866.9	860.7	853.5	850.0
37.5°	837.8	836.4	829.7	821.7	817.7
40°	802.5	801.4	793.1	784.9	779.8
42.5°	761.9	761.1	752.3	740.8	735.4
45°	716.7	714.9	703.7	691.9	685.5
47.5°	666.5	663.3	649.7	638.5	631.5
50°	611.0	606.7	592.0	577.6	570.3
52.5°	550.8	543.4	528.1	511.6	504.6
55°	489.9	480.6	460.8	446.9	441.9
57.5°	430.4	416.7	398.0	388.2	383.1
60°	371.9	356.9	342.2	332.6	329.1
62.5°	316.0	303.5	290.9	281.3	279.2
65°	264.5	253.0	244.7	235.4	234.0
67.5°	216.4	211.0	203.6	195.5	194.5
70°	174.4	172.3	165.6	160.8	158.9
72.5°	139.2	137.0	132.2	128.8	128.2
75°	105.8	103.7	102.0	98.6	97.8
77.5°	75.3	75.6	74.3	72.4	72.9
80°	54.5	51.3	50.2	49.2	48.9
82.5°	33.4	31.5	30.7	30.5	31.0
85°	17.1	16.3	16.6	15.8	16.6
87.5°	5.9	5.9	6.1	5.9	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)