

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: P412510

Luminaire Tested: **24PD-40-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412510
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-40-PB1-L927
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

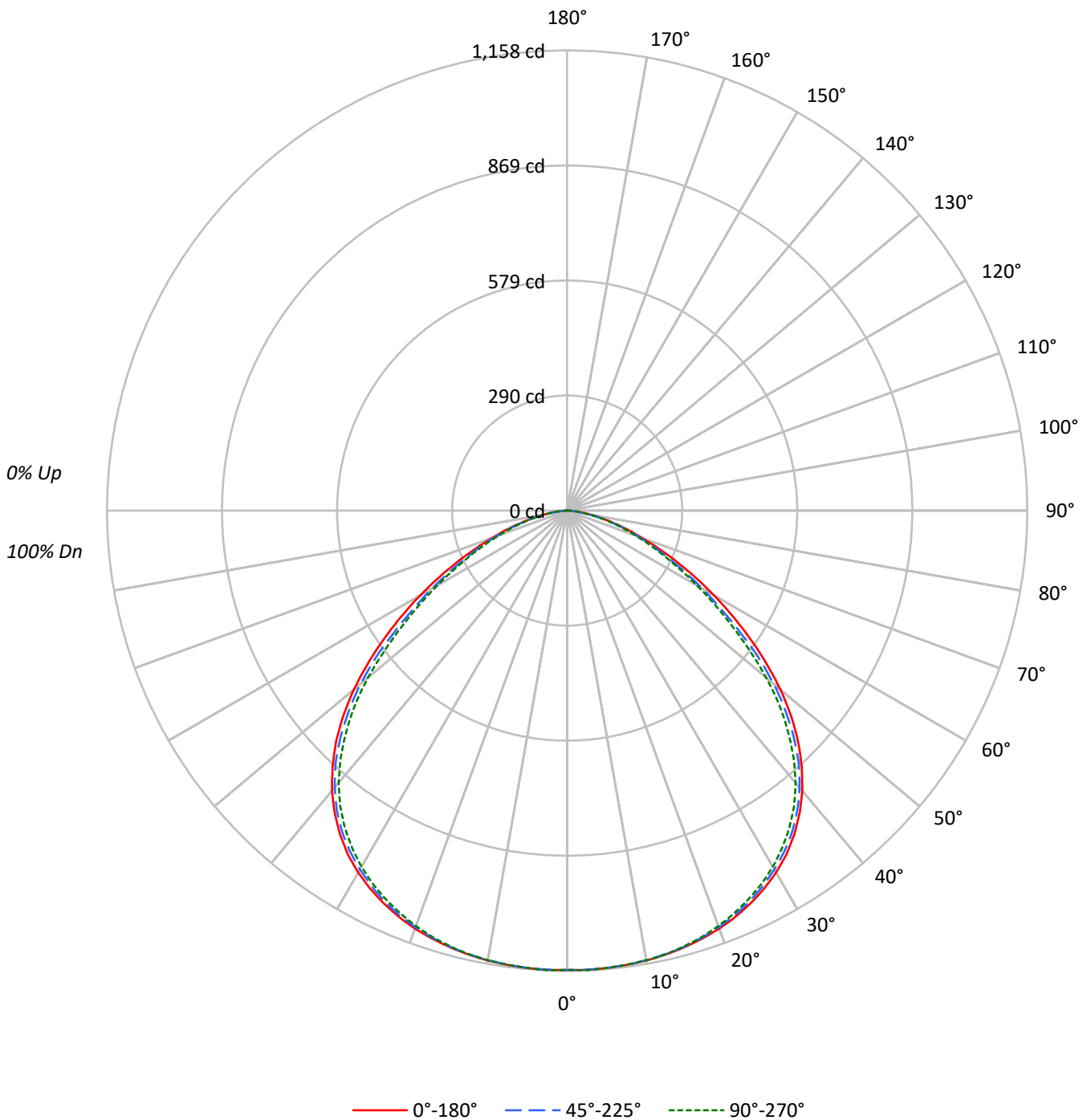
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 103.6 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): 29.7
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°	1555	1555	1555
5°	1561	1561	1561
10°	1571	1569	1570
15°	1585	1583	1582
20°	1603	1598	1593
25°	1620	1612	1602
30°	1634	1620	1608
35°	1636	1622	1601
40°	1617	1598	1571
45°	1564	1536	1496
50°	1467	1421	1369
55°	1318	1240	1189
60°	1148	1056	1016
65°	966	894	855
70°	787	747	717
75°	631	608	583
80°	484	446	435
85°	303	293	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.6
10°-20°	321.2	10.4
20°-30°	500.5	16.3
30°-40°	615.7	20.0
40°-50°	618.4	20.1
50°-60°	476.6	15.5
60°-70°	283.0	9.2
70°-80°	126.0	4.1
80°-90°	24.6	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°	931.8	30.3
0°-40°	1547.4	50.3
0°-60°	2642.5	85.9
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1155	1156	1155	1154	1155	110
15°	1138	1138	1136	1135	1136	322
25°	1091	1091	1086	1081	1079	503
35°	996	994	987	979	975	622
45°	822	820	807	794	786	631
55°	562	551	528	513	507	502
65°	303	290	281	270	268	303
75°	121	119	117	113	112	131
85°	20	19	19	18	19	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.0	1156.0	1156.0	1156.0	<i>1156.0</i>
2.5°	<i>1156.6</i>	<i>1156.3</i>	<i>1156.3</i>	<i>1155.1</i>	<i>1157.5</i>
5°	1155.4	1155.7	1155.4	1154.2	<i>1155.4</i>
7.5°	1152.9	1153.2	1152.6	1151.4	<i>1152.6</i>
10°	1149.9	1149.9	1148.6	1148.0	<i>1149.0</i>
12.5°	1144.7	1144.7	1143.4	1142.5	<i>1143.4</i>
15°	1137.9	1137.9	1136.4	1134.6	<i>1135.5</i>
17.5°	1129.7	1129.7	1127.2	1124.7	<i>1125.4</i>
20°	1119.5	1119.2	1115.9	1112.5	<i>1112.8</i>
22.5°	1106.7	1106.4	1102.1	1098.1	<i>1096.9</i>
25°	1091.0	1090.7	1085.5	1080.6	<i>1079.4</i>
27.5°	1073.0	1071.7	1065.9	1060.4	<i>1059.2</i>
30°	1051.5	1050.6	1042.9	1037.4	<i>1035.0</i>
32.5°	1026.7	1024.3	1017.2	1010.5	<i>1007.1</i>
35°	995.8	994.2	987.2	978.9	<i>974.9</i>
37.5°	960.8	959.3	951.6	942.4	<i>937.9</i>
40°	920.4	919.2	909.7	900.2	<i>894.3</i>
42.5°	873.8	872.9	862.8	849.6	<i>843.5</i>
45°	822.0	819.9	807.0	793.5	<i>786.2</i>
47.5°	764.4	760.8	745.1	732.3	<i>724.3</i>
50°	700.7	695.8	679.0	662.4	<i>654.1</i>
52.5°	631.8	623.2	605.7	586.7	<i>578.8</i>
55°	561.9	551.2	528.5	512.6	<i>506.8</i>
57.5°	493.6	478.0	456.5	445.2	<i>439.4</i>
60°	426.5	409.3	392.5	381.5	<i>377.5</i>
62.5°	362.5	348.1	333.7	322.6	<i>320.2</i>
65°	303.3	290.1	280.7	269.9	<i>268.4</i>
67.5°	248.2	242.0	233.5	224.3	<i>223.1</i>
70°	200.1	197.6	190.0	184.4	<i>182.3</i>
72.5°	159.6	157.2	151.7	147.7	<i>147.1</i>
75°	121.3	118.9	117.0	113.1	<i>112.1</i>
77.5°	86.4	86.7	85.2	83.0	<i>83.6</i>
80°	62.5	58.8	57.6	56.4	<i>56.1</i>
82.5°	38.3	36.2	35.2	34.9	<i>35.5</i>
85°	19.6	18.7	19.0	18.1	<i>19.0</i>
87.5°	6.7	6.7	7.0	6.7	<i>7.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)