

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: P412505

Luminaire Tested: **24PD-35-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412505
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-L950
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

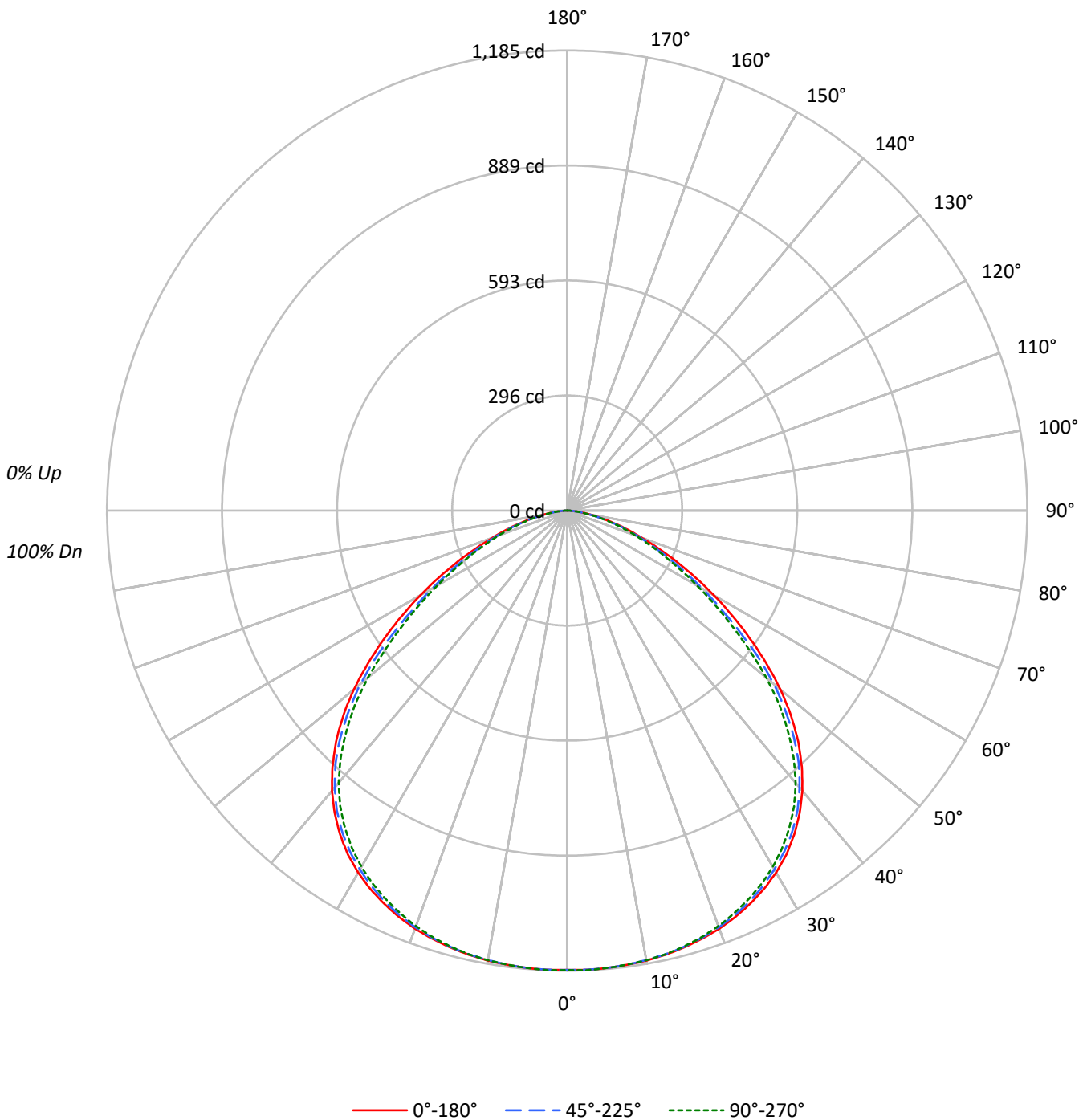
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3148.0 lumens
Efficiency: N/A
Efficacy: 122.0 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°	1592	1592	1592
5°	1597	1597	1597
10°	1608	1606	1606
15°	1622	1620	1619
20°	1640	1635	1631
25°	1658	1649	1640
30°	1672	1658	1646
35°	1674	1659	1639
40°	1654	1635	1608
45°	1601	1572	1531
50°	1501	1454	1401
55°	1349	1269	1217
60°	1175	1081	1040
65°	988	914	875
70°	806	765	734
75°	646	623	597
80°	496	456	445
85°	310	299	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.6
10°-20°	328.8	10.4
20°-30°	512.2	16.3
30°-40°	630.1	20.0
40°-50°	632.9	20.1
50°-60°	487.8	15.5
60°-70°	289.6	9.2
70°-80°	128.9	4.1
80°-90°	25.2	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°	953.6	30.3
0°-40°	1583.7	50.3
0°-60°	2704.3	85.9
0°-90°	3148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1182	1183	1182	1181	1182	113
15°	1165	1165	1163	1161	1162	329
25°	1117	1116	1111	1106	1105	515
35°	1019	1018	1010	1002	998	636
45°	841	839	826	812	805	646
55°	575	564	541	525	519	514
65°	310	297	287	276	275	310
75°	124	122	120	116	115	134
85°	20	19	19	18	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.1	1183.1	1183.1	1183.1	<i>1183.1</i>
2.5°	<i>1183.7</i>	<i>1183.4</i>	<i>1183.4</i>	<i>1182.1</i>	<i>1184.6</i>
5°	1182.4	1182.7	1182.4	1181.2	<i>1182.4</i>
7.5°	1179.9	1180.2	1179.6	1178.4	<i>1179.6</i>
10°	1176.8	1176.8	1175.5	1174.9	<i>1175.8</i>
12.5°	1171.5	1171.5	1170.2	1169.3	<i>1170.2</i>
15°	1164.6	1164.6	1163.0	1161.1	<i>1162.1</i>
17.5°	1156.1	1156.1	1153.6	1151.1	<i>1151.7</i>
20°	1145.7	1145.4	1142.0	1138.5	<i>1138.8</i>
22.5°	1132.6	1132.3	1127.9	1123.8	<i>1122.5</i>
25°	1116.6	1116.3	1110.9	1105.9	<i>1104.7</i>
27.5°	1098.1	1096.8	1090.9	1085.2	<i>1084.0</i>
30°	1076.1	1075.2	1067.4	1061.7	<i>1059.2</i>
32.5°	1050.7	1048.2	1041.0	1034.1	<i>1030.7</i>
35°	1019.1	1017.5	1010.3	1001.8	<i>997.7</i>
37.5°	983.3	981.8	973.9	964.5	<i>959.8</i>
40°	941.9	940.7	931.0	921.2	<i>915.3</i>
42.5°	894.3	893.3	883.0	869.5	<i>863.2</i>
45°	841.3	839.1	825.9	812.1	<i>804.6</i>
47.5°	782.3	778.6	762.6	749.4	<i>741.3</i>
50°	717.1	712.1	694.8	677.9	<i>669.4</i>
52.5°	646.6	637.8	619.9	600.5	<i>592.3</i>
55°	575.1	564.1	540.9	524.6	<i>518.6</i>
57.5°	505.1	489.2	467.2	455.6	<i>449.6</i>
60°	436.5	418.9	401.7	390.4	<i>386.3</i>
62.5°	370.9	356.2	341.5	330.2	<i>327.7</i>
65°	310.4	296.9	287.2	276.2	<i>274.7</i>
67.5°	254.0	247.7	238.9	229.5	<i>228.3</i>
70°	204.8	202.2	194.4	188.8	<i>186.6</i>
72.5°	163.4	160.9	155.2	151.1	<i>150.5</i>
75°	124.2	121.7	119.8	115.7	<i>114.8</i>
77.5°	88.4	88.7	87.2	85.0	<i>85.6</i>
80°	64.0	60.2	58.9	57.7	<i>57.4</i>
82.5°	39.2	37.0	36.1	35.7	<i>36.4</i>
85°	20.1	19.1	19.4	18.5	<i>19.4</i>
87.5°	6.9	6.9	7.2	6.9	<i>7.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)