

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: P412490

Luminaire Tested: **24PD-30-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412490
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-30-PB1-L840
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

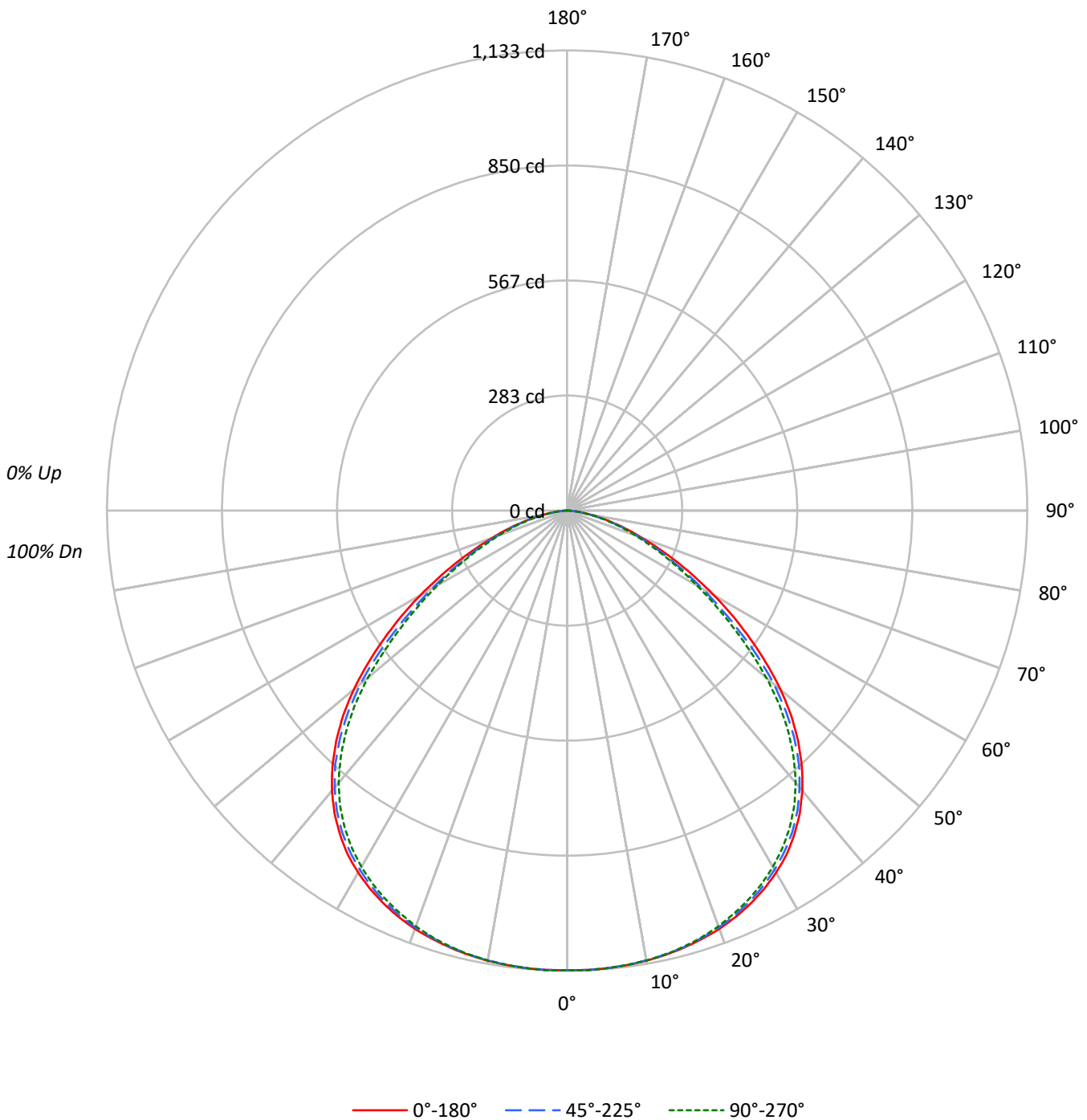
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 136.9 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): 22
Input Voltage (V): NR
Input Current (A_{in}): 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: P412490
CATALOG NUMBER: 24PD-30-PB1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P412490

CATALOG NUMBER: 24PD-30-PB1-L840

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°	1523	1523	1523
5°	1528	1528	1528
10°	1538	1536	1537
15°	1552	1550	1548
20°	1569	1564	1560
25°	1586	1578	1569
30°	1599	1586	1574
35°	1601	1587	1567
40°	1582	1564	1538
45°	1531	1503	1464
50°	1436	1391	1340
55°	1290	1214	1164
60°	1123	1034	994
65°	945	875	836
70°	770	731	702
75°	618	596	571
80°	474	437	425
85°	296	287	287



TEST NUMBER: P412490

CATALOG NUMBER: 24PD-30-PB1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.6
10°-20°	314.5	10.4
20°-30°	489.9	16.3
30°-40°	602.6	20.0
40°-50°	605.4	20.1
50°-60°	466.6	15.5
60°-70°	277.0	9.2
70°-80°	123.3	4.1
80°-90°	24.1	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°	912.1	30.3
0°-40°	1514.7	50.3
0°-60°	2586.6	85.9
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1131	1131	1131	1130	1131	108
15°	1114	1114	1112	1111	1112	315
25°	1068	1068	1063	1058	1057	493
35°	975	973	966	958	954	609
45°	805	803	790	777	770	618
55°	550	540	517	502	496	492
65°	297	284	275	264	263	297
75°	119	116	115	111	110	129
85°	19	18	19	18	19	26
90°	0	0	0	0	0	



TEST NUMBER: P412490

CATALOG NUMBER: 24PD-30-PB1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.6	1131.6	1131.6	1131.6	<i>1131.6</i>
2.5°	<i>1132.2</i>	<i>1131.9</i>	<i>1131.9</i>	<i>1130.7</i>	<i>1133.1</i>
5°	1131.0	1131.3	1131.0	1129.8	<i>1131.0</i>
7.5°	1128.6	1128.9	1128.3	1127.1	<i>1128.3</i>
10°	1125.6	1125.6	1124.4	1123.8	<i>1124.7</i>
12.5°	1120.5	1120.5	1119.3	1118.4	<i>1119.3</i>
15°	1113.9	1113.9	1112.4	1110.6	<i>1111.5</i>
17.5°	1105.8	1105.8	1103.4	1101.0	<i>1101.6</i>
20°	1095.9	1095.6	1092.3	1089.0	<i>1089.3</i>
22.5°	1083.3	1083.0	1078.8	1074.9	<i>1073.7</i>
25°	1068.0	1067.7	1062.6	1057.8	<i>1056.6</i>
27.5°	1050.3	1049.1	1043.4	1038.0	<i>1036.8</i>
30°	1029.3	1028.4	1020.9	1015.5	<i>1013.1</i>
32.5°	1005.0	1002.6	995.7	989.1	<i>985.8</i>
35°	974.7	973.2	966.3	958.2	<i>954.3</i>
37.5°	940.5	939.0	931.5	922.5	<i>918.0</i>
40°	900.9	899.7	890.4	881.1	<i>875.4</i>
42.5°	855.4	854.5	844.6	831.7	<i>825.7</i>
45°	804.7	802.6	790.0	776.8	<i>769.6</i>
47.5°	748.3	744.7	729.4	716.8	<i>709.0</i>
50°	685.9	681.1	664.6	648.4	<i>640.3</i>
52.5°	618.4	610.0	592.9	574.3	<i>566.5</i>
55°	550.0	539.5	517.4	501.8	<i>496.1</i>
57.5°	483.2	467.9	446.9	435.8	<i>430.1</i>
60°	417.5	400.7	384.2	373.4	<i>369.5</i>
62.5°	354.8	340.7	326.6	315.8	<i>313.4</i>
65°	296.9	284.0	274.7	264.2	<i>262.7</i>
67.5°	242.9	236.9	228.5	219.5	<i>218.3</i>
70°	195.8	193.4	185.9	180.5	<i>178.4</i>
72.5°	156.3	153.9	148.5	144.6	<i>144.0</i>
75°	118.8	116.4	114.6	110.7	<i>109.8</i>
77.5°	84.6	84.9	83.4	81.3	<i>81.9</i>
80°	61.2	57.6	56.4	55.2	<i>54.9</i>
82.5°	37.5	35.4	34.5	34.2	<i>34.8</i>
85°	19.2	18.3	18.6	17.7	<i>18.6</i>
87.5°	6.6	6.6	6.9	6.6	<i>7.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)