

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: P412390

Luminaire Tested: **22PD-40-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PB1-L835
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

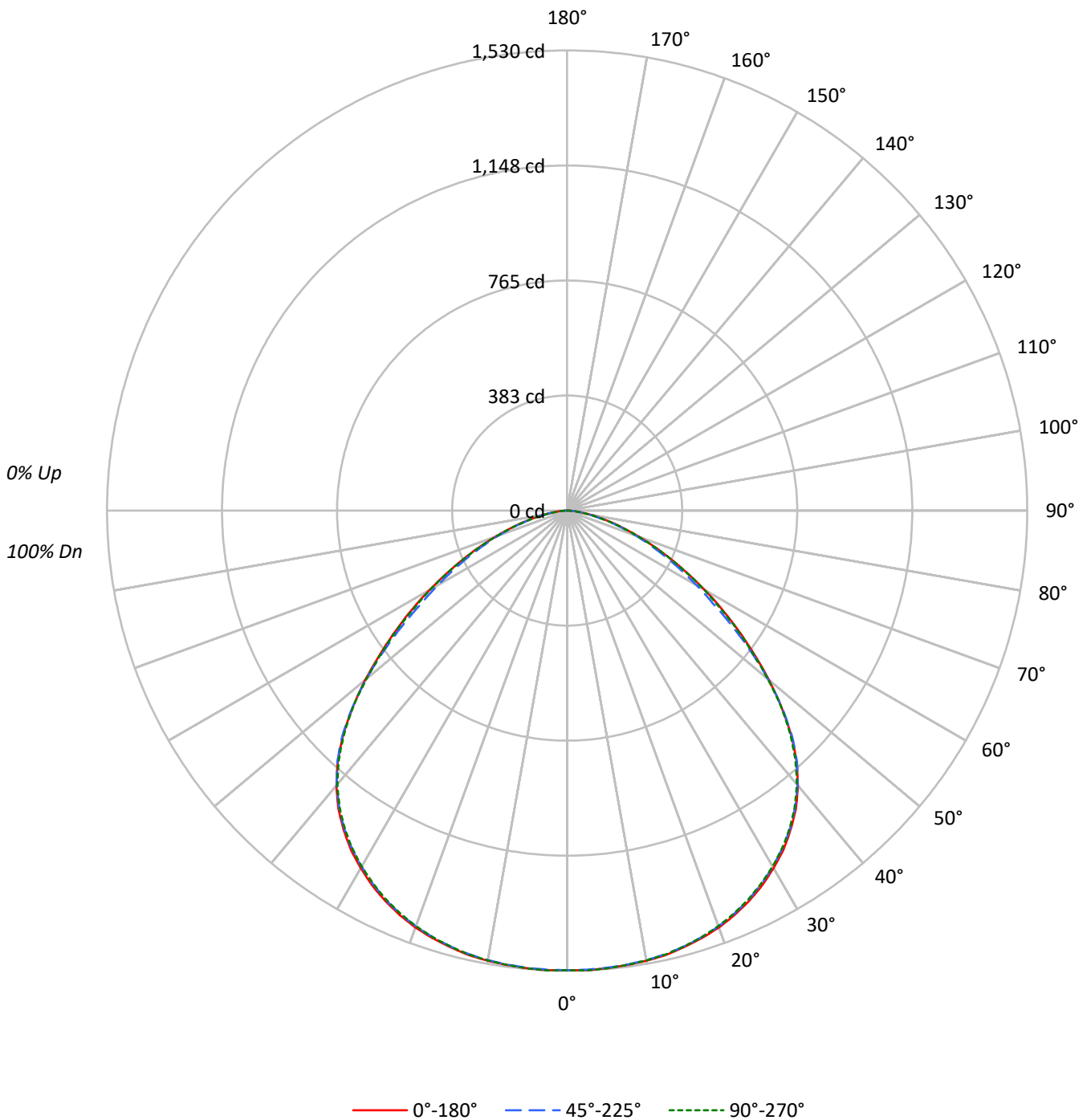
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4012.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4112	4112	4112
5°	4125	4122	4127
10°	4153	4147	4150
15°	4186	4180	4180
20°	4225	4212	4210
25°	4251	4238	4234
30°	4265	4248	4245
35°	4256	4244	4236
40°	4193	4188	4175
45°	4008	4021	3990
50°	3669	3650	3646
55°	3261	3146	3239
60°	2843	2671	2826
65°	2410	2281	2398
70°	1993	1911	1974
75°	1612	1509	1547
80°	1164	1128	1120
85°	760	760	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.6
10°-20°	424.1	10.6
20°-30°	658.0	16.4
30°-40°	807.0	20.1
40°-50°	806.7	20.1
50°-60°	611.0	15.2
60°-70°	366.5	9.1
70°-80°	161.4	4.0
80°-90°	32.0	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°	1227.5	30.6
0°-40°	2034.5	50.7
0°-60°	3452.2	86.0
0°-90°	4012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1527	1525	1526	1525	1528	146
15°	1503	1501	1500	1499	1500	425
25°	1432	1429	1428	1425	1426	660
35°	1296	1295	1292	1291	1290	809
45°	1053	1055	1057	1054	1048	806
55°	695	680	670	680	690	623
65°	378	365	358	364	377	379
75°	155	152	145	147	149	165
85°	25	26	25	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.2	1528.2	1528.2	1528.2	1528.2
2.5°	1529.6	1527.2	1527.7	1527.7	1530.5
5°	1527.2	1525.3	1525.8	1525.3	1527.7
7.5°	1523.9	1522.0	1522.5	1522.0	1523.4
10°	1519.7	1517.8	1517.8	1516.8	1518.7
12.5°	1514.0	1511.6	1510.7	1510.2	1511.6
15°	1502.6	1501.2	1500.3	1499.3	1500.3
17.5°	1490.4	1488.0	1487.1	1485.2	1487.1
20°	1475.2	1471.9	1471.0	1469.6	1470.0
22.5°	1455.4	1452.6	1451.1	1448.8	1449.7
25°	1431.8	1428.9	1427.5	1425.2	1426.1
27.5°	1404.4	1402.5	1399.2	1397.3	1397.7
30°	1372.7	1370.8	1367.0	1366.1	1366.1
32.5°	1337.7	1335.4	1332.1	1331.1	1330.6
35°	1295.7	1295.2	1291.9	1291.0	1289.5
37.5°	1249.8	1248.9	1245.1	1244.2	1242.8
40°	1193.6	1192.7	1192.2	1190.3	1188.4
42.5°	1128.4	1129.8	1130.8	1127.0	1123.2
45°	1053.3	1054.7	1056.6	1053.7	1048.5
47.5°	965.4	971.1	968.2	970.1	964.9
50°	876.5	876.5	871.8	873.7	870.9
52.5°	783.5	775.9	770.2	774.0	777.8
55°	695.1	680.0	670.5	679.5	690.4
57.5°	610.5	592.6	575.1	589.2	602.5
60°	528.3	507.5	496.2	506.6	525.0
62.5°	450.3	435.2	423.9	431.9	447.5
65°	378.5	365.3	358.2	364.3	376.6
67.5°	312.8	303.8	296.7	301.9	311.4
70°	253.3	250.9	242.9	245.2	250.9
72.5°	198.9	198.5	191.4	193.3	196.6
75°	155.0	151.7	145.1	147.4	148.8
77.5°	109.6	111.0	104.9	106.3	106.3
80°	75.1	77.5	72.8	71.8	72.3
82.5°	47.7	47.7	47.3	46.8	45.4
85°	24.6	25.5	24.6	23.6	23.6
87.5°	9.5	9.5	9.5	9.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)