

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: P412394

Luminaire Tested: **22PD-40-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412394
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-L930
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

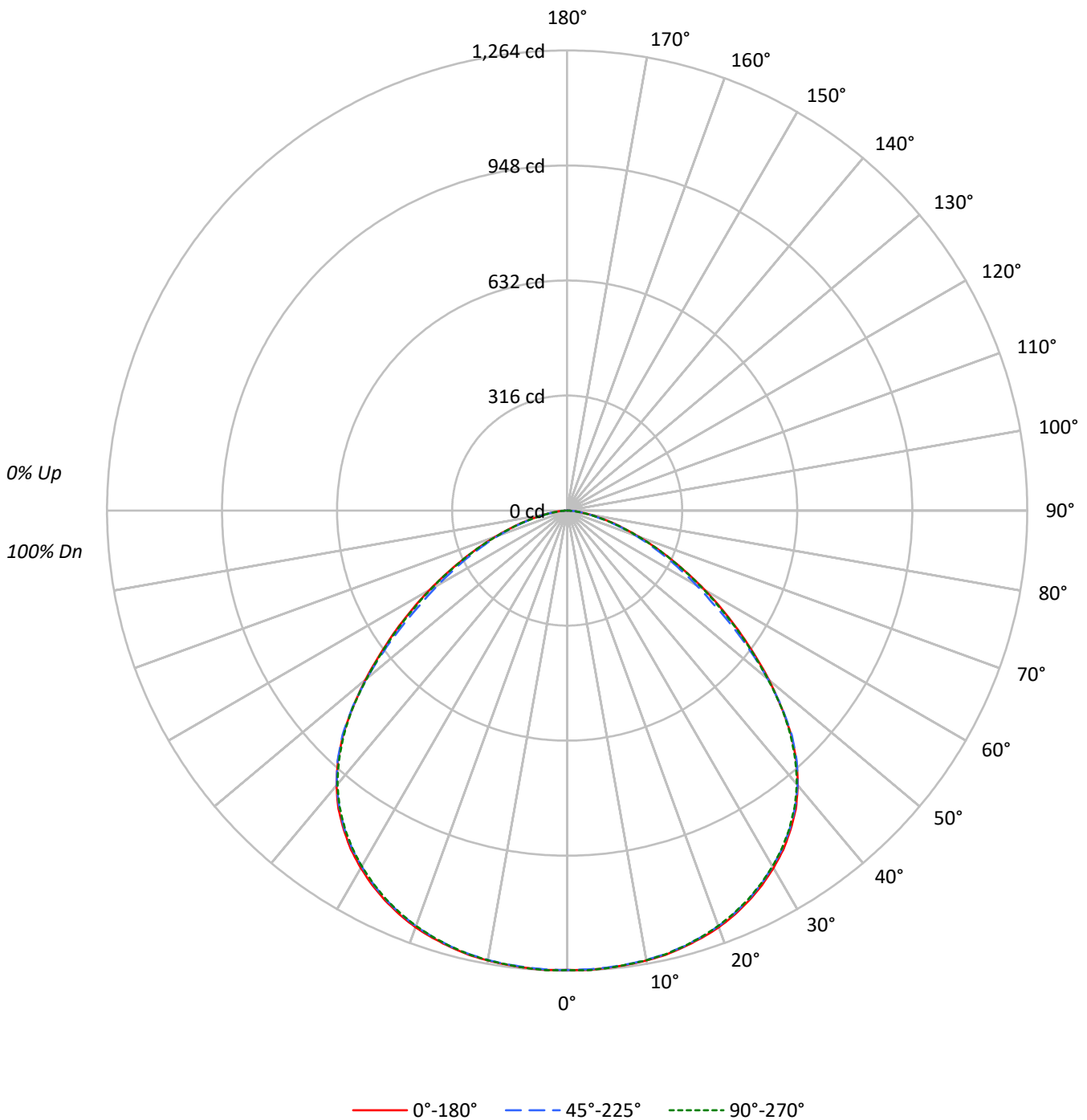
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 98.0 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 (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

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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°	3396	3396	3396
5°	3407	3404	3408
10°	3429	3425	3427
15°	3457	3451	3451
20°	3489	3479	3476
25°	3510	3500	3496
30°	3522	3508	3505
35°	3515	3505	3498
40°	3463	3458	3447
45°	3310	3320	3295
50°	3030	3014	3010
55°	2693	2598	2675
60°	2348	2205	2333
65°	1990	1883	1980
70°	1645	1578	1630
75°	1331	1246	1278
80°	961	931	925
85°	627	627	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.6
10°-20°	350.2	10.6
20°-30°	543.4	16.4
30°-40°	666.4	20.1
40°-50°	666.1	20.1
50°-60°	504.6	15.2
60°-70°	302.6	9.1
70°-80°	133.2	4.0
80°-90°	26.4	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°	1013.7	30.6
0°-40°	1680.0	50.7
0°-60°	2850.7	86.0
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1261	1260	1260	1260	1262	120
15°	1241	1240	1239	1238	1239	351
25°	1182	1180	1179	1177	1178	545
35°	1070	1070	1067	1066	1065	668
45°	870	871	872	870	866	666
55°	574	562	554	561	570	515
65°	313	302	296	301	311	313
75°	128	125	120	122	123	137
85°	20	21	20	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.9	1261.9	1261.9	1261.9	1261.9
2.5°	1263.1	1261.1	1261.5	1261.5	1263.9
5°	1261.1	1259.6	1260.0	1259.6	1261.5
7.5°	1258.4	1256.8	1257.2	1256.8	1258.0
10°	1254.9	1253.3	1253.3	1252.6	1254.1
12.5°	1250.2	1248.3	1247.5	1247.1	1248.3
15°	1240.8	1239.7	1238.9	1238.1	1238.9
17.5°	1230.7	1228.8	1228.0	1226.4	1228.0
20°	1218.2	1215.5	1214.7	1213.5	1213.9
22.5°	1201.8	1199.5	1198.3	1196.4	1197.1
25°	1182.3	1180.0	1178.8	1176.9	1177.6
27.5°	1159.7	1158.1	1155.4	1153.8	1154.2
30°	1133.5	1132.0	1128.9	1128.1	1128.1
32.5°	1104.7	1102.7	1100.0	1099.2	1098.8
35°	1069.9	1069.5	1066.8	1066.0	1064.9
37.5°	1032.1	1031.3	1028.2	1027.4	1026.2
40°	985.7	984.9	984.5	982.9	981.4
42.5°	931.8	933.0	933.8	930.6	927.5
45°	869.8	870.9	872.5	870.2	865.9
47.5°	797.2	801.9	799.5	801.1	796.8
50°	723.8	723.8	719.9	721.5	719.1
52.5°	647.0	640.7	636.0	639.2	642.3
55°	574.0	561.5	553.7	561.1	570.1
57.5°	504.1	489.3	474.9	486.6	497.5
60°	436.2	419.1	409.7	418.3	433.5
62.5°	371.9	359.4	350.0	356.6	369.5
65°	312.6	301.6	295.8	300.8	311.0
67.5°	258.3	250.9	245.0	249.3	257.1
70°	209.1	207.2	200.6	202.5	207.2
72.5°	164.3	163.9	158.0	159.6	162.3
75°	128.0	125.3	119.8	121.7	122.9
77.5°	90.5	91.7	86.6	87.8	87.8
80°	62.0	64.0	60.1	59.3	59.7
82.5°	39.4	39.4	39.0	38.6	37.5
85°	20.3	21.1	20.3	19.5	19.5
87.5°	7.8	7.8	7.8	7.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)