

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: P412397

Luminaire Tested: **22PD-40-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412397
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-L950
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

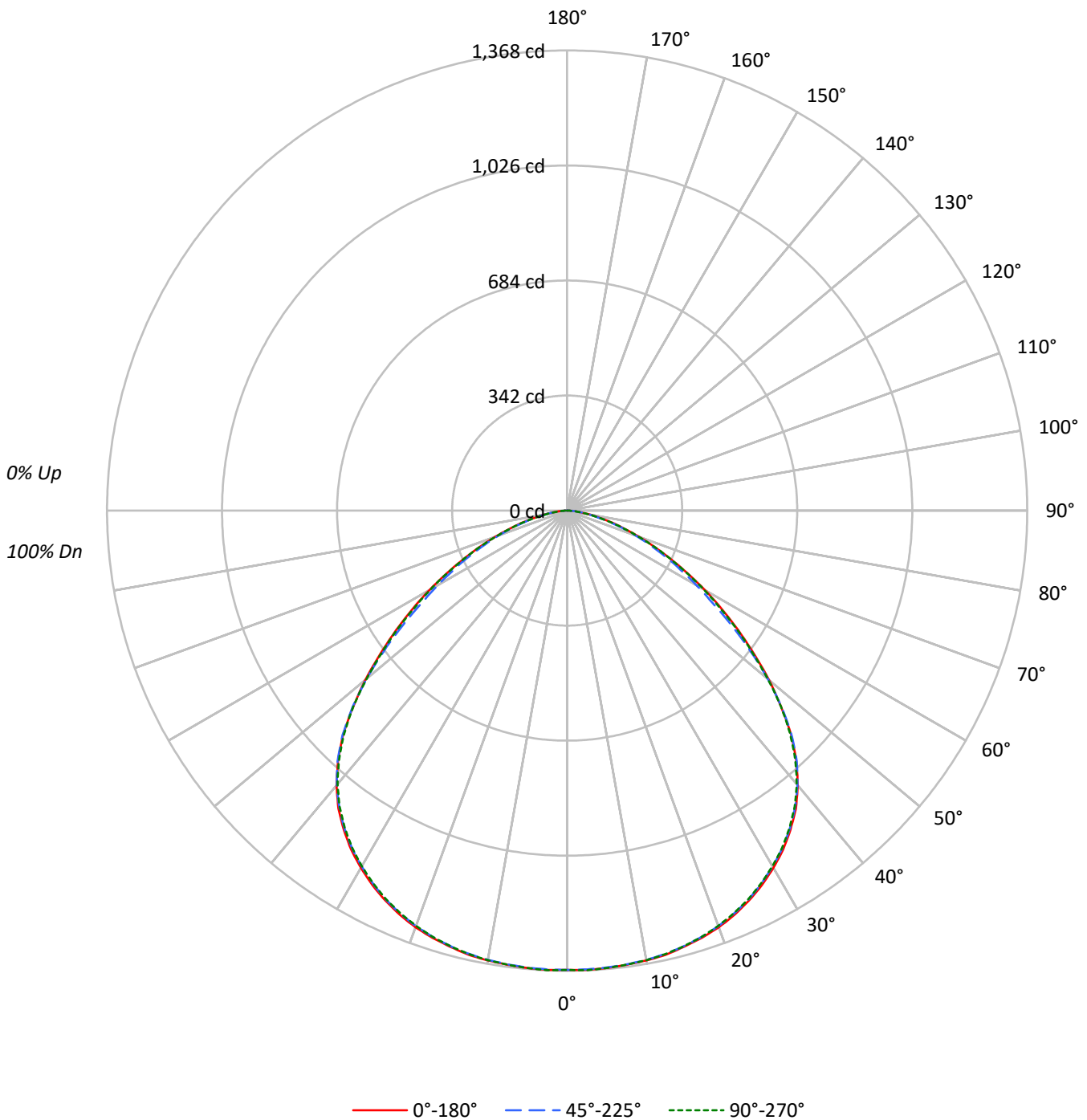
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3585.0 lumens
Efficiency: N/A
Efficacy: 106.1 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°	3675	3675	3675
5°	3686	3683	3687
10°	3710	3706	3708
15°	3741	3735	3735
20°	3775	3764	3762
25°	3799	3787	3784
30°	3811	3796	3793
35°	3803	3792	3785
40°	3747	3742	3730
45°	3582	3593	3565
50°	3279	3261	3258
55°	2914	2811	2894
60°	2541	2386	2525
65°	2153	2038	2143
70°	1781	1707	1764
75°	1440	1347	1383
80°	1040	1007	1001
85°	679	679	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.6
10°-20°	378.9	10.6
20°-30°	588.0	16.4
30°-40°	721.1	20.1
40°-50°	720.8	20.1
50°-60°	546.0	15.2
60°-70°	327.5	9.1
70°-80°	144.2	4.0
80°-90°	28.6	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°	1096.9	30.6
0°-40°	1818.0	50.7
0°-60°	3084.8	86.0
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1365	1363	1363	1363	1365	130
15°	1343	1342	1341	1340	1341	380
25°	1279	1277	1276	1274	1274	590
35°	1158	1157	1154	1154	1152	723
45°	941	942	944	942	937	721
55°	621	608	599	607	617	557
65°	338	326	320	326	336	338
75°	138	136	130	132	133	148
85°	22	23	22	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.5	1365.5	1365.5	1365.5	1365.5
2.5°	1366.8	1364.7	1365.1	1365.1	1367.6
5°	1364.7	1363.0	1363.4	1363.0	1365.1
7.5°	1361.7	1360.0	1360.5	1360.0	1361.3
10°	1357.9	1356.2	1356.2	1355.4	1357.1
12.5°	1352.9	1350.7	1349.9	1349.5	1350.7
15°	1342.7	1341.5	1340.6	1339.8	1340.6
17.5°	1331.7	1329.6	1328.8	1327.1	1328.8
20°	1318.2	1315.3	1314.4	1313.2	1313.6
22.5°	1300.5	1298.0	1296.7	1294.6	1295.4
25°	1279.4	1276.9	1275.6	1273.5	1274.3
27.5°	1254.9	1253.2	1250.3	1248.6	1249.0
30°	1226.6	1224.9	1221.5	1220.7	1220.7
32.5°	1195.4	1193.2	1190.3	1189.4	1189.0
35°	1157.8	1157.4	1154.4	1153.6	1152.3
37.5°	1116.8	1116.0	1112.6	1111.8	1110.5
40°	1066.6	1065.7	1065.3	1063.6	1061.9
42.5°	1008.3	1009.6	1010.4	1007.0	1003.7
45°	941.2	942.4	944.1	941.6	936.9
47.5°	862.6	867.7	865.2	866.9	862.2
50°	783.3	783.3	779.0	780.7	778.2
52.5°	700.1	693.3	688.3	691.6	695.0
55°	621.1	607.6	599.2	607.2	616.9
57.5°	545.5	529.5	513.9	526.5	538.4
60°	472.1	453.5	443.4	452.6	469.1
62.5°	402.4	388.9	378.7	385.9	399.9
65°	338.2	326.4	320.1	325.5	336.5
67.5°	279.5	271.5	265.2	269.8	278.3
70°	226.3	224.2	217.0	219.1	224.2
72.5°	177.8	177.3	171.0	172.7	175.7
75°	138.5	135.5	129.6	131.7	133.0
77.5°	98.0	99.2	93.7	95.0	95.0
80°	67.1	69.2	65.0	64.2	64.6
82.5°	42.6	42.6	42.2	41.8	40.5
85°	22.0	22.8	22.0	21.1	21.1
87.5°	8.4	8.4	8.4	8.0	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)