

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: P412403

Luminaire Tested: **22PD-45-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412403
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-45-PB1-L930
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

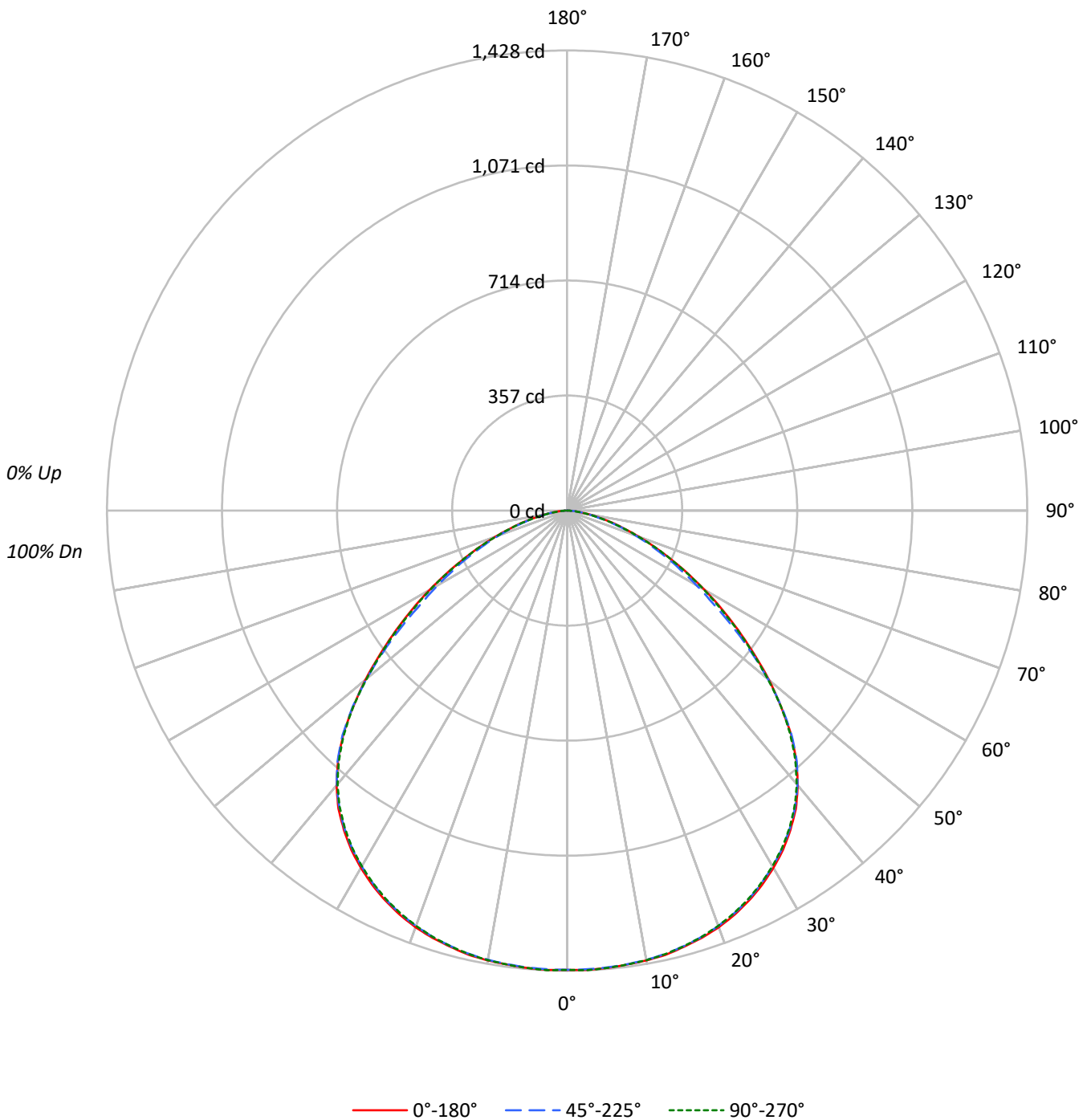
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3742.0 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): 38.2
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°	3835	3835	3835
5°	3848	3844	3849
10°	3873	3868	3871
15°	3904	3898	3898
20°	3940	3929	3926
25°	3965	3953	3949
30°	3978	3962	3959
35°	3970	3959	3951
40°	3911	3906	3894
45°	3739	3750	3722
50°	3423	3404	3401
55°	3042	2934	3021
60°	2652	2491	2636
65°	2248	2127	2237
70°	1858	1782	1841
75°	1503	1407	1443
80°	1086	1052	1044
85°	707	707	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.6
10°-20°	395.5	10.6
20°-30°	613.8	16.4
30°-40°	752.7	20.1
40°-50°	752.4	20.1
50°-60°	569.9	15.2
60°-70°	341.8	9.1
70°-80°	150.5	4.0
80°-90°	29.8	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°	1144.9	30.6
0°-40°	1897.6	50.7
0°-60°	3219.8	86.0
0°-90°	3742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1424	1423	1423	1423	1425	136
15°	1402	1400	1399	1398	1399	396
25°	1335	1333	1331	1329	1330	616
35°	1208	1208	1205	1204	1203	755
45°	982	984	986	983	978	752
55°	648	634	625	634	644	581
65°	353	341	334	340	351	353
75°	145	142	135	138	139	154
85°	23	24	23	22	22	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1426.6	1424.4	1424.9	1424.9	1427.5
5°	1424.4	1422.7	1423.1	1422.7	1424.9
7.5°	1421.4	1419.6	1420.0	1419.6	1420.9
10°	1417.4	1415.6	1415.6	1414.7	1416.5
12.5°	1412.1	1409.9	1409.0	1408.6	1409.9
15°	1401.5	1400.2	1399.3	1398.4	1399.3
17.5°	1390.1	1387.9	1387.0	1385.2	1387.0
20°	1376.0	1372.9	1372.0	1370.7	1371.1
22.5°	1357.5	1354.8	1353.5	1351.3	1352.2
25°	1335.4	1332.8	1331.4	1329.2	1330.1
27.5°	1309.9	1308.1	1305.0	1303.2	1303.7
30°	1280.3	1278.6	1275.0	1274.2	1274.2
32.5°	1247.7	1245.5	1242.4	1241.5	1241.1
35°	1208.5	1208.0	1205.0	1204.1	1202.8
37.5°	1165.7	1164.9	1161.3	1160.4	1159.1
40°	1113.3	1112.4	1112.0	1110.2	1108.4
42.5°	1052.5	1053.8	1054.7	1051.1	1047.6
45°	982.4	983.7	985.5	982.8	978.0
47.5°	900.4	905.7	903.1	904.8	900.0
50°	817.6	817.6	813.1	814.9	812.3
52.5°	730.7	723.7	718.4	721.9	725.4
55°	648.3	634.2	625.4	633.8	643.9
57.5°	569.4	552.7	536.4	549.6	561.9
60°	492.7	473.3	462.8	472.5	489.7
62.5°	420.0	405.9	395.3	402.8	417.4
65°	353.0	340.7	334.1	339.8	351.3
67.5°	291.8	283.4	276.8	281.6	290.4
70°	236.2	234.0	226.5	228.7	234.0
72.5°	185.5	185.1	178.5	180.3	183.3
75°	144.6	141.5	135.3	137.5	138.8
77.5°	102.2	103.6	97.8	99.2	99.2
80°	70.1	72.3	67.9	67.0	67.4
82.5°	44.5	44.5	44.1	43.6	42.3
85°	22.9	23.8	22.9	22.0	22.0
87.5°	8.8	8.8	8.8	8.4	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)