

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: P412745

Luminaire Tested: **22PD-45-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PP3-L930
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

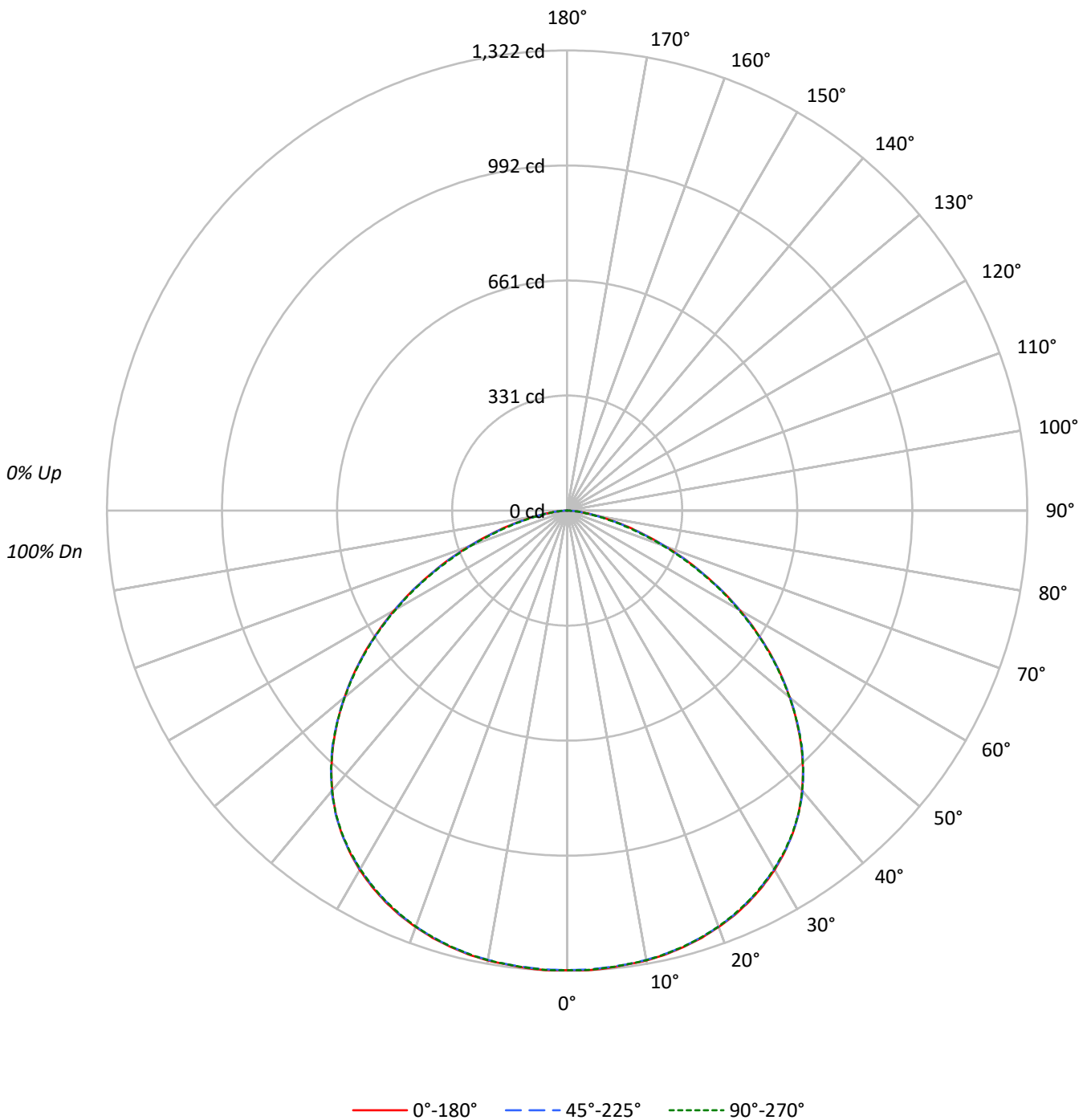
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
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 (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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3553	3553	3553
5°	3564	3559	3562
10°	3586	3581	3584
15°	3614	3611	3611
20°	3646	3642	3641
25°	3678	3671	3671
30°	3704	3697	3696
35°	3714	3714	3710
40°	3690	3698	3690
45°	3617	3627	3622
50°	3495	3501	3492
55°	3328	3319	3313
60°	3089	3082	3058
65°	2759	2756	2725
70°	2359	2345	2293
75°	1879	1825	1770
80°	1339	1311	1243
85°	871	871	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.3
10°-20°	366.2	9.7
20°-30°	570.3	15.1
30°-40°	705.8	18.6
40°-50°	731.9	19.3
50°-60°	630.8	16.7
60°-70°	428.9	11.3
70°-80°	191.9	5.1
80°-90°	36.5	1.0
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°	1062.1	28.0
0°-40°	1767.9	46.7
0°-60°	3130.7	82.6
0°-90°	3788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1319	1317	1318	1317	1318	126
15°	1297	1295	1296	1295	1296	367
25°	1239	1237	1236	1236	1236	571
35°	1131	1129	1131	1129	1129	706
45°	950	950	953	951	952	732
55°	709	707	708	706	706	632
65°	433	437	433	432	428	430
75°	181	181	176	175	170	194
85°	28	29	28	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.3	1320.3	1320.3	1320.3	1320.3
2.5°	1322.1	1319.4	1319.4	1319.8	1321.2
5°	1319.4	1316.8	1317.6	1317.2	1318.5
7.5°	1315.9	1313.7	1315.0	1314.1	1315.0
10°	1312.4	1310.1	1310.6	1310.1	1311.5
12.5°	1306.2	1303.5	1304.4	1304.4	1304.9
15°	1297.4	1295.2	1296.0	1295.2	1296.0
17.5°	1286.8	1284.1	1284.6	1284.1	1285.0
20°	1273.1	1271.4	1271.8	1270.9	1271.4
22.5°	1257.7	1255.5	1255.9	1255.0	1255.0
25°	1238.7	1237.0	1236.5	1236.1	1236.5
27.5°	1216.7	1214.5	1214.5	1214.0	1214.0
30°	1192.0	1189.8	1189.8	1189.4	1189.4
32.5°	1162.9	1162.0	1162.5	1161.6	1161.1
35°	1130.7	1129.4	1130.7	1129.0	1129.4
37.5°	1093.3	1091.5	1094.1	1092.4	1092.8
40°	1050.5	1049.6	1052.7	1051.4	1050.5
42.5°	1002.9	1002.9	1004.2	1004.7	1003.8
45°	950.4	949.5	953.1	950.9	951.8
47.5°	894.0	892.7	895.3	894.9	894.4
50°	834.9	834.1	836.3	834.1	834.1
52.5°	773.7	773.2	773.7	771.5	771.0
55°	709.3	706.7	707.5	706.2	706.2
57.5°	642.3	639.2	639.6	639.2	639.6
60°	574.0	573.1	572.6	570.4	568.2
62.5°	503.9	504.8	504.3	501.2	499.0
65°	433.3	436.9	432.9	431.6	428.0
67.5°	366.8	368.1	365.4	362.4	358.4
70°	299.8	302.4	298.0	294.9	291.4
72.5°	235.8	237.6	233.6	231.9	227.5
75°	180.7	181.2	175.5	174.6	170.2
77.5°	128.7	130.5	126.1	126.1	121.7
80°	86.4	89.5	84.6	83.3	80.2
82.5°	54.2	54.7	53.3	52.0	50.7
85°	28.2	29.1	28.2	27.3	27.3
87.5°	10.6	11.0	10.6	10.1	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)