

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: P412747

Luminaire Tested: **22PD-45-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412747
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-L940
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

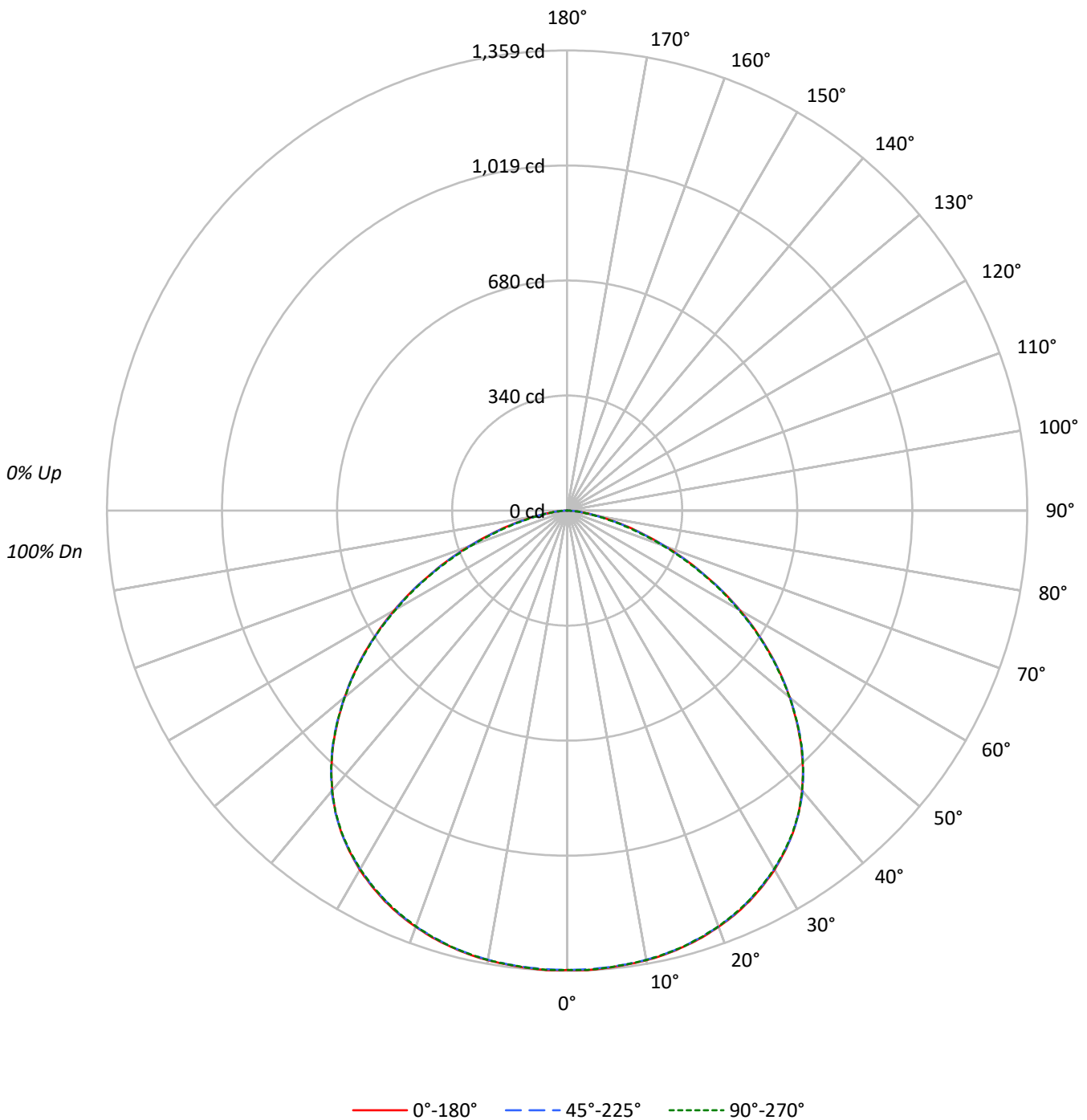
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893.0 lumens
Efficiency: N/A
Efficacy: 101.9 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 (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

TEST NUMBER: P412747
CATALOG NUMBER: 22PD-45-PP3-L940

Luminous Intensity Polar Plot





TEST NUMBER: P412747

CATALOG NUMBER: 22PD-45-PP3-L940

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°	3651	3651	3651
5°	3663	3658	3660
10°	3685	3680	3683
15°	3714	3711	3711
20°	3747	3743	3742
25°	3780	3773	3773
30°	3806	3800	3798
35°	3818	3818	3813
40°	3792	3801	3792
45°	3717	3728	3722
50°	3592	3598	3589
55°	3420	3411	3405
60°	3175	3167	3143
65°	2835	2833	2801
70°	2424	2410	2356
75°	1932	1875	1818
80°	1376	1348	1278
85°	895	895	868



TEST NUMBER: P412747

CATALOG NUMBER: 22PD-45-PP3-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.3
10°-20°	376.4	9.7
20°-30°	586.1	15.1
30°-40°	725.4	18.6
40°-50°	752.2	19.3
50°-60°	648.3	16.7
60°-70°	440.8	11.3
70°-80°	197.2	5.1
80°-90°	37.6	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°	1091.5	28.0
0°-40°	1816.9	46.7
0°-60°	3217.4	82.6
0°-90°	3893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1356	1353	1354	1354	1355	129
15°	1333	1331	1332	1331	1332	377
25°	1273	1271	1271	1270	1271	587
35°	1162	1161	1162	1160	1161	726
45°	977	976	980	977	978	752
55°	729	726	727	726	726	650
65°	445	449	445	444	440	442
75°	186	186	180	179	175	200
85°	29	30	29	28	28	38
90°	0	0	0	0	0	



TEST NUMBER: P412747

CATALOG NUMBER: 22PD-45-PP3-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.9	1356.9	1356.9	1356.9	1356.9
2.5°	1358.7	1356.0	1356.0	1356.4	1357.8
5°	1356.0	1353.3	1354.2	1353.7	1355.1
7.5°	1352.4	1350.1	1351.4	1350.5	1351.4
10°	1348.7	1346.5	1346.9	1346.5	1347.8
12.5°	1342.4	1339.7	1340.6	1340.6	1341.0
15°	1333.3	1331.1	1332.0	1331.1	1332.0
17.5°	1322.5	1319.7	1320.2	1319.7	1320.6
20°	1308.4	1306.6	1307.0	1306.1	1306.6
22.5°	1292.6	1290.3	1290.7	1289.8	1289.8
25°	1273.1	1271.3	1270.8	1270.4	1270.8
27.5°	1250.4	1248.2	1248.2	1247.7	1247.7
30°	1225.0	1222.8	1222.8	1222.3	1222.3
32.5°	1195.1	1194.2	1194.7	1193.8	1193.3
35°	1162.1	1160.7	1162.1	1160.3	1160.7
37.5°	1123.6	1121.8	1124.5	1122.7	1123.1
40°	1079.6	1078.7	1081.9	1080.5	1079.6
42.5°	1030.7	1030.7	1032.0	1032.5	1031.6
45°	976.8	975.9	979.5	977.2	978.1
47.5°	918.8	917.4	920.1	919.7	919.2
50°	858.1	857.2	859.4	857.2	857.2
52.5°	795.1	794.6	795.1	792.8	792.4
55°	729.0	726.2	727.1	725.8	725.8
57.5°	660.1	656.9	657.4	656.9	657.4
60°	589.9	589.0	588.5	586.2	584.0
62.5°	517.8	518.7	518.3	515.1	512.9
65°	445.3	449.0	444.9	443.5	439.9
67.5°	376.9	378.3	375.6	372.4	368.3
70°	308.1	310.8	306.3	303.1	299.5
72.5°	242.4	244.2	240.1	238.3	233.8
75°	185.8	186.2	180.3	179.4	174.9
77.5°	132.3	134.1	129.6	129.6	125.0
80°	88.8	92.0	87.0	85.6	82.5
82.5°	55.7	56.2	54.8	53.5	52.1
85°	29.0	29.9	29.0	28.1	28.1
87.5°	10.9	11.3	10.9	10.4	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)