

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: P412756

Luminaire Tested: **22PD-50-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412756
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-50-PP3-L940
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

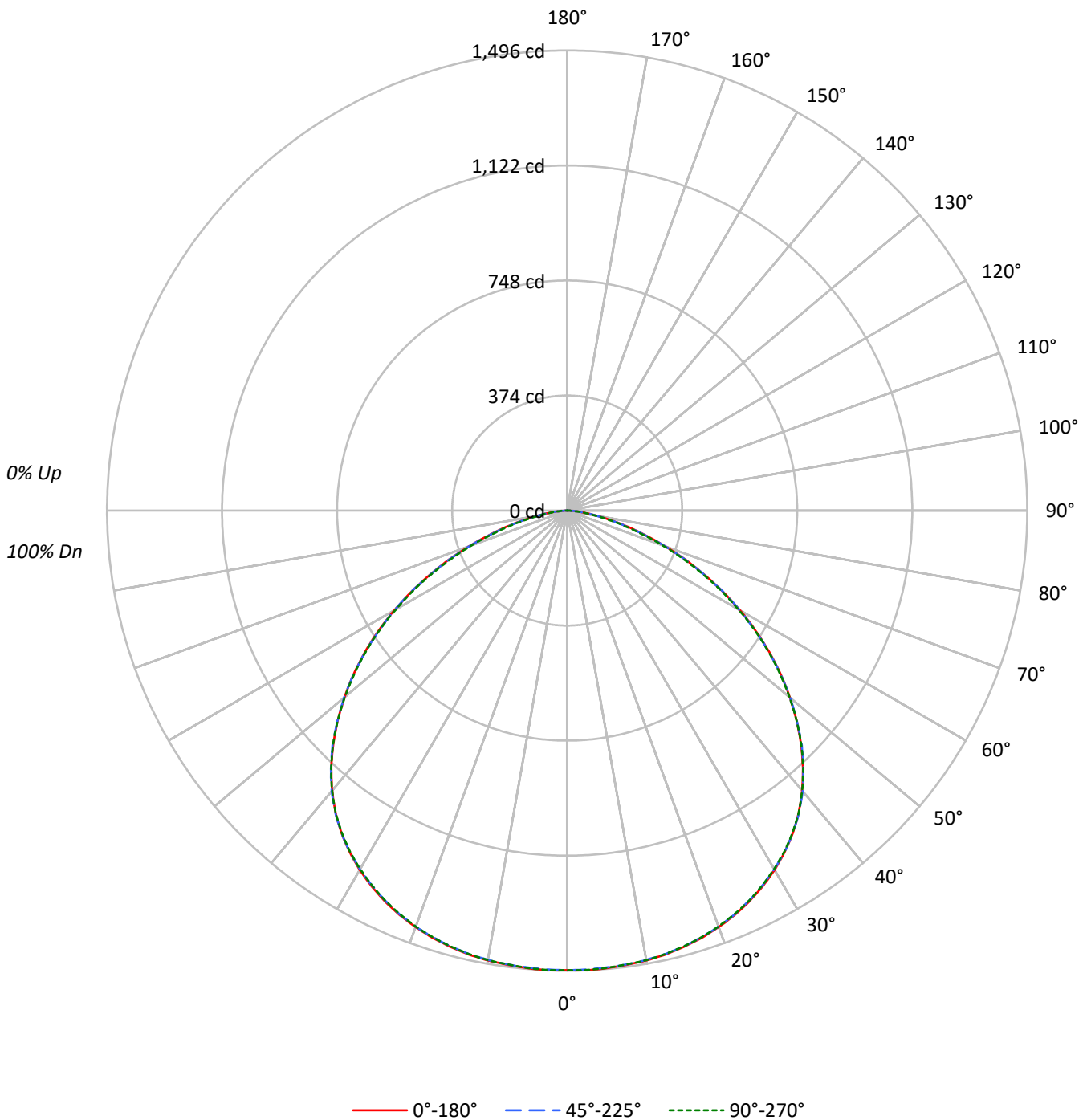
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 42.5
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	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	51	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°	4021	4021	4021
5°	4034	4028	4031
10°	4058	4053	4056
15°	4091	4086	4086
20°	4126	4122	4120
25°	4162	4155	4155
30°	4192	4184	4182
35°	4204	4204	4199
40°	4176	4185	4176
45°	4093	4105	4099
50°	3956	3962	3952
55°	3766	3757	3750
60°	3496	3488	3461
65°	3123	3119	3084
70°	2670	2654	2595
75°	2126	2065	2002
80°	1516	1485	1407
85°	985	985	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.3
10°-20°	414.5	9.7
20°-30°	645.4	15.1
30°-40°	798.8	18.6
40°-50°	828.3	19.3
50°-60°	713.9	16.7
60°-70°	485.4	11.3
70°-80°	217.2	5.1
80°-90°	41.4	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°	1202.0	28.0
0°-40°	2000.8	46.7
0°-60°	3543.1	82.6
0°-90°	4287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1493	1490	1491	1491	1492	142
15°	1468	1466	1467	1466	1467	415
25°	1402	1400	1399	1399	1399	646
35°	1280	1278	1280	1278	1278	799
45°	1076	1075	1079	1076	1077	828
55°	803	800	801	799	799	716
65°	490	494	490	488	484	487
75°	204	205	199	198	193	220
85°	32	33	32	31	31	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.2	1494.2	1494.2	1494.2	1494.2
2.5°	1496.2	1493.2	1493.2	1493.7	1495.2
5°	1493.2	1490.2	1491.2	1490.7	1492.2
7.5°	1489.2	1486.7	1488.2	1487.2	1488.2
10°	1485.2	1482.7	1483.2	1482.7	1484.2
12.5°	1478.2	1475.3	1476.3	1476.3	1476.7
15°	1468.3	1465.8	1466.8	1465.8	1466.8
17.5°	1456.3	1453.3	1453.8	1453.3	1454.3
20°	1440.8	1438.8	1439.3	1438.3	1438.8
22.5°	1423.4	1420.9	1421.4	1420.4	1420.4
25°	1401.9	1399.9	1399.4	1398.9	1399.4
27.5°	1377.0	1374.5	1374.5	1374.0	1374.0
30°	1349.0	1346.5	1346.5	1346.0	1346.0
32.5°	1316.1	1315.1	1315.6	1314.6	1314.1
35°	1279.7	1278.2	1279.7	1277.7	1278.2
37.5°	1237.3	1235.3	1238.3	1236.3	1236.8
40°	1188.9	1187.9	1191.4	1189.9	1188.9
42.5°	1135.0	1135.0	1136.5	1137.0	1136.0
45°	1075.6	1074.6	1078.6	1076.1	1077.1
47.5°	1011.8	1010.3	1013.3	1012.8	1012.3
50°	944.9	943.9	946.4	943.9	943.9
52.5°	875.6	875.1	875.6	873.1	872.6
55°	802.7	799.7	800.7	799.2	799.2
57.5°	726.9	723.4	723.9	723.4	723.9
60°	649.6	648.6	648.1	645.6	643.1
62.5°	570.2	571.2	570.7	567.3	564.8
65°	490.4	494.4	489.9	488.4	484.4
67.5°	415.1	416.6	413.6	410.1	405.6
70°	339.3	342.2	337.3	333.8	329.8
72.5°	266.9	268.9	264.4	262.4	257.4
75°	204.5	205.0	198.6	197.6	192.6
77.5°	145.7	147.7	142.7	142.7	137.7
80°	97.8	101.3	95.8	94.3	90.8
82.5°	61.4	61.9	60.4	58.9	57.4
85°	31.9	32.9	31.9	30.9	30.9
87.5°	12.0	12.5	12.0	11.5	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)