

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: P412702

Luminaire Tested: **22PD-20-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412702
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-20-PP3-L940
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

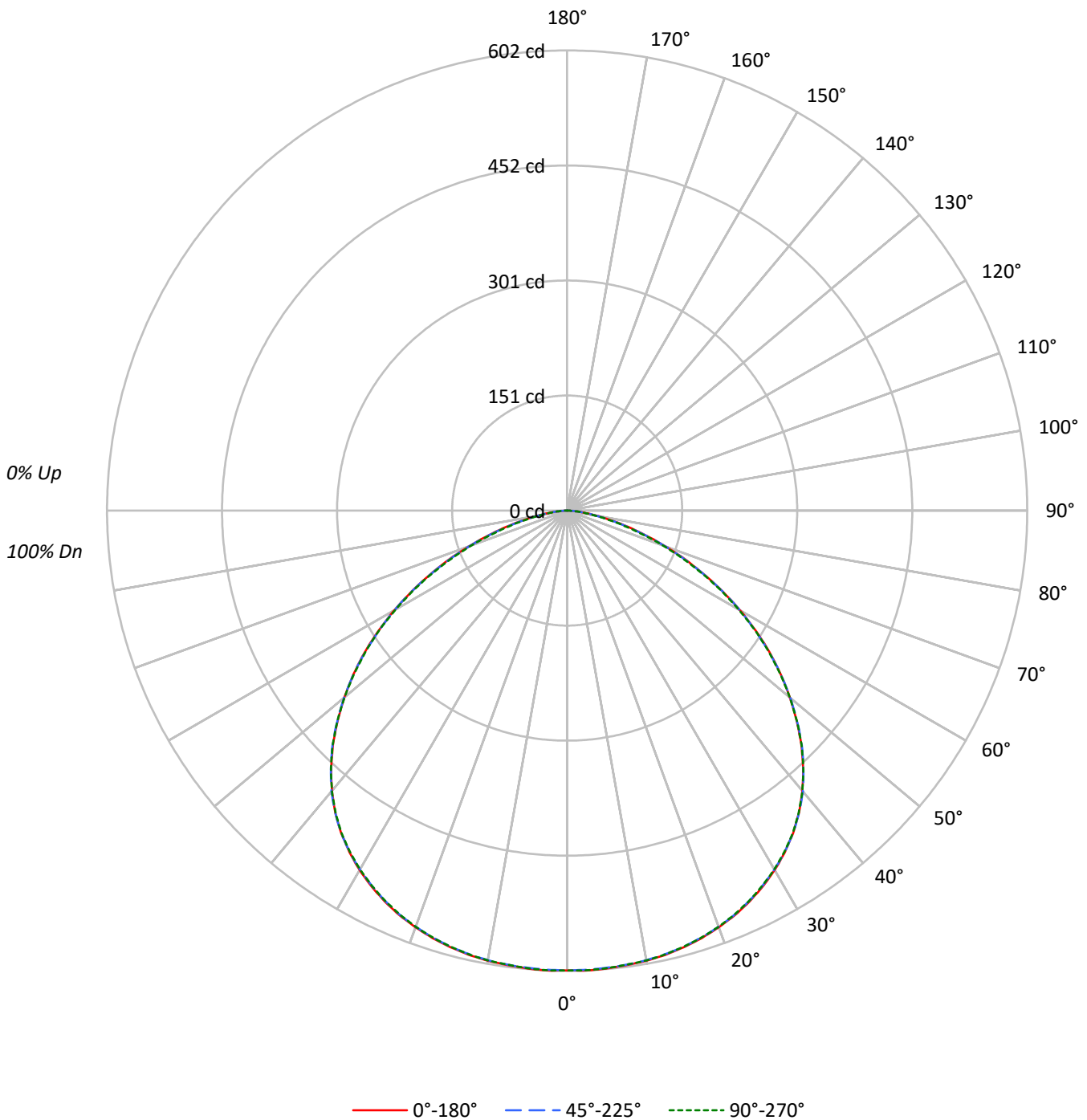
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1726.0 lumens
Efficiency: N/A
Efficacy: 102.1 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): 16.9
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°	1619	1619	1619
5°	1624	1622	1623
10°	1634	1632	1633
15°	1647	1645	1645
20°	1661	1660	1659
25°	1676	1673	1673
30°	1688	1684	1684
35°	1692	1692	1691
40°	1682	1685	1682
45°	1648	1653	1650
50°	1593	1595	1591
55°	1516	1513	1510
60°	1407	1404	1393
65°	1257	1256	1242
70°	1075	1068	1045
75°	857	831	806
80°	611	598	567
85°	398	398	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.3
10°-20°	166.9	9.7
20°-30°	259.9	15.1
30°-40°	321.6	18.6
40°-50°	333.5	19.3
50°-60°	287.4	16.7
60°-70°	195.4	11.3
70°-80°	87.5	5.1
80°-90°	16.7	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°	483.9	28.0
0°-40°	805.5	46.7
0°-60°	1426.5	82.6
0°-90°	1726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	600	600	600	601	57
15°	591	590	590	590	590	167
25°	564	564	563	563	563	260
35°	515	515	515	514	515	322
45°	433	433	434	433	434	333
55°	323	322	322	322	322	288
65°	197	199	197	197	195	196
75°	82	83	80	80	78	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.6	601.6	601.6	601.6	601.6
2.5°	602.4	601.2	601.2	601.4	602.0
5°	601.2	600.0	600.4	600.2	600.8
7.5°	599.6	598.6	599.2	598.8	599.2
10°	598.0	597.0	597.2	597.0	597.6
12.5°	595.2	594.0	594.4	594.4	594.6
15°	591.1	590.1	590.5	590.1	590.5
17.5°	586.3	585.1	585.3	585.1	585.5
20°	580.1	579.3	579.5	579.1	579.3
22.5°	573.1	572.1	572.3	571.9	571.9
25°	564.4	563.6	563.4	563.2	563.4
27.5°	554.4	553.4	553.4	553.2	553.2
30°	543.1	542.1	542.1	541.9	541.9
32.5°	529.9	529.5	529.7	529.3	529.1
35°	515.2	514.6	515.2	514.4	514.6
37.5°	498.1	497.3	498.5	497.7	497.9
40°	478.7	478.3	479.7	479.1	478.7
42.5°	457.0	457.0	457.6	457.8	457.4
45°	433.1	432.7	434.3	433.3	433.7
47.5°	407.4	406.7	408.0	407.8	407.6
50°	380.4	380.0	381.0	380.0	380.0
52.5°	352.5	352.3	352.5	351.5	351.3
55°	323.2	322.0	322.4	321.8	321.8
57.5°	292.7	291.3	291.5	291.3	291.5
60°	261.5	261.1	260.9	259.9	258.9
62.5°	229.6	230.0	229.8	228.4	227.4
65°	197.4	199.1	197.2	196.6	195.0
67.5°	167.1	167.7	166.5	165.1	163.3
70°	136.6	137.8	135.8	134.4	132.8
72.5°	107.5	108.3	106.5	105.7	103.6
75°	82.4	82.6	79.9	79.5	77.5
77.5°	58.7	59.5	57.4	57.4	55.4
80°	39.4	40.8	38.6	38.0	36.6
82.5°	24.7	24.9	24.3	23.7	23.1
85°	12.9	13.3	12.9	12.5	12.5
87.5°	4.8	5.0	4.8	4.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)