

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: P412360

Luminaire Tested: **22PD-20-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412360
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-20-PB1-L940
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

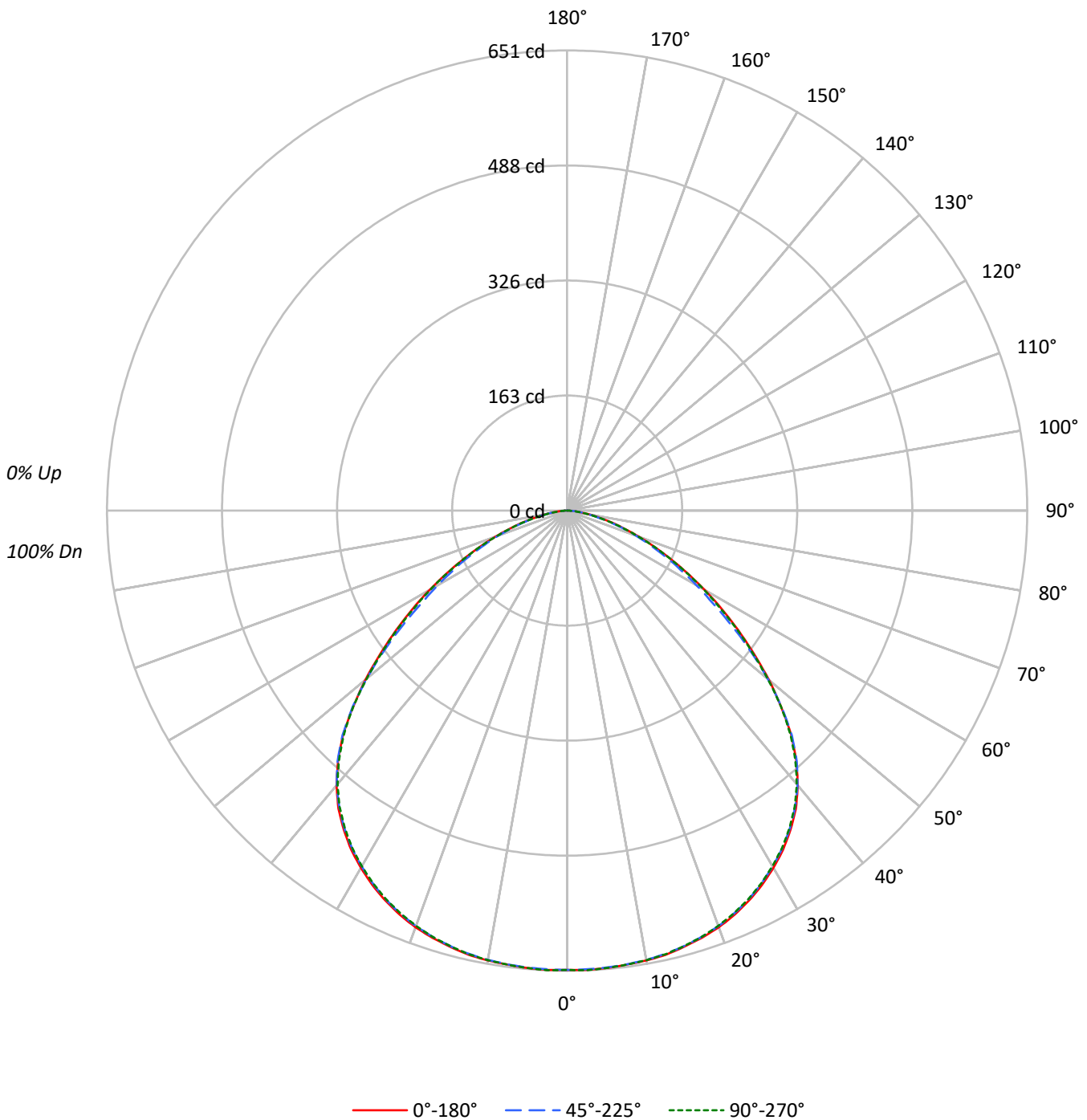
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 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	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°	1749	1749	1749
5°	1754	1753	1755
10°	1766	1764	1765
15°	1780	1777	1777
20°	1796	1791	1790
25°	1808	1802	1801
30°	1814	1806	1805
35°	1810	1804	1801
40°	1783	1781	1775
45°	1705	1710	1697
50°	1560	1552	1550
55°	1387	1338	1377
60°	1209	1136	1201
65°	1025	970	1019
70°	847	813	840
75°	685	642	658
80°	494	479	476
85°	321	321	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.6
10°-20°	180.3	10.6
20°-30°	279.8	16.4
30°-40°	343.1	20.1
40°-50°	343.0	20.1
50°-60°	259.8	15.2
60°-70°	155.8	9.1
70°-80°	68.6	4.0
80°-90°	13.6	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°	522.0	30.6
0°-40°	865.1	50.7
0°-60°	1467.9	86.0
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	649	649	649	649	650	62
15°	639	638	638	638	638	181
25°	609	608	607	606	606	281
35°	551	551	549	549	548	344
45°	448	448	449	448	446	343
55°	296	289	285	289	294	265
65°	161	155	152	155	160	161
75°	66	64	62	63	63	70
85°	10	11	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.8	649.8	649.8	649.8	649.8
2.5°	650.4	649.4	649.6	649.6	650.8
5°	649.4	648.6	648.8	648.6	649.6
7.5°	648.0	647.2	647.4	647.2	647.8
10°	646.2	645.4	645.4	645.0	645.8
12.5°	643.8	642.8	642.4	642.2	642.8
15°	639.0	638.4	638.0	637.6	638.0
17.5°	633.7	632.7	632.3	631.5	632.3
20°	627.3	625.9	625.5	624.9	625.1
22.5°	618.9	617.7	617.1	616.1	616.5
25°	608.8	607.6	607.0	606.0	606.4
27.5°	597.2	596.4	595.0	594.2	594.4
30°	583.7	582.9	581.3	580.9	580.9
32.5°	568.8	567.8	566.4	566.0	565.8
35°	551.0	550.8	549.3	548.9	548.3
37.5°	531.5	531.1	529.5	529.1	528.5
40°	507.6	507.2	507.0	506.1	505.3
42.5°	479.8	480.4	480.8	479.2	477.6
45°	447.9	448.5	449.3	448.1	445.9
47.5°	410.5	412.9	411.7	412.5	410.3
50°	372.7	372.7	370.7	371.5	370.3
52.5°	333.1	329.9	327.5	329.1	330.7
55°	295.6	289.1	285.1	288.9	293.6
57.5°	259.6	252.0	244.5	250.6	256.2
60°	224.6	215.8	211.0	215.4	223.2
62.5°	191.5	185.1	180.2	183.7	190.3
65°	160.9	155.3	152.3	154.9	160.1
67.5°	133.0	129.2	126.2	128.4	132.4
70°	107.7	106.7	103.3	104.3	106.7
72.5°	84.6	84.4	81.4	82.2	83.6
75°	65.9	64.5	61.7	62.7	63.3
77.5°	46.6	47.2	44.6	45.2	45.2
80°	31.9	33.0	30.9	30.5	30.7
82.5°	20.3	20.3	20.1	19.9	19.3
85°	10.4	10.9	10.4	10.0	10.0
87.5°	4.0	4.0	4.0	3.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)