

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: P412359

Luminaire Tested: **22PD-20-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412359
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-L935
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

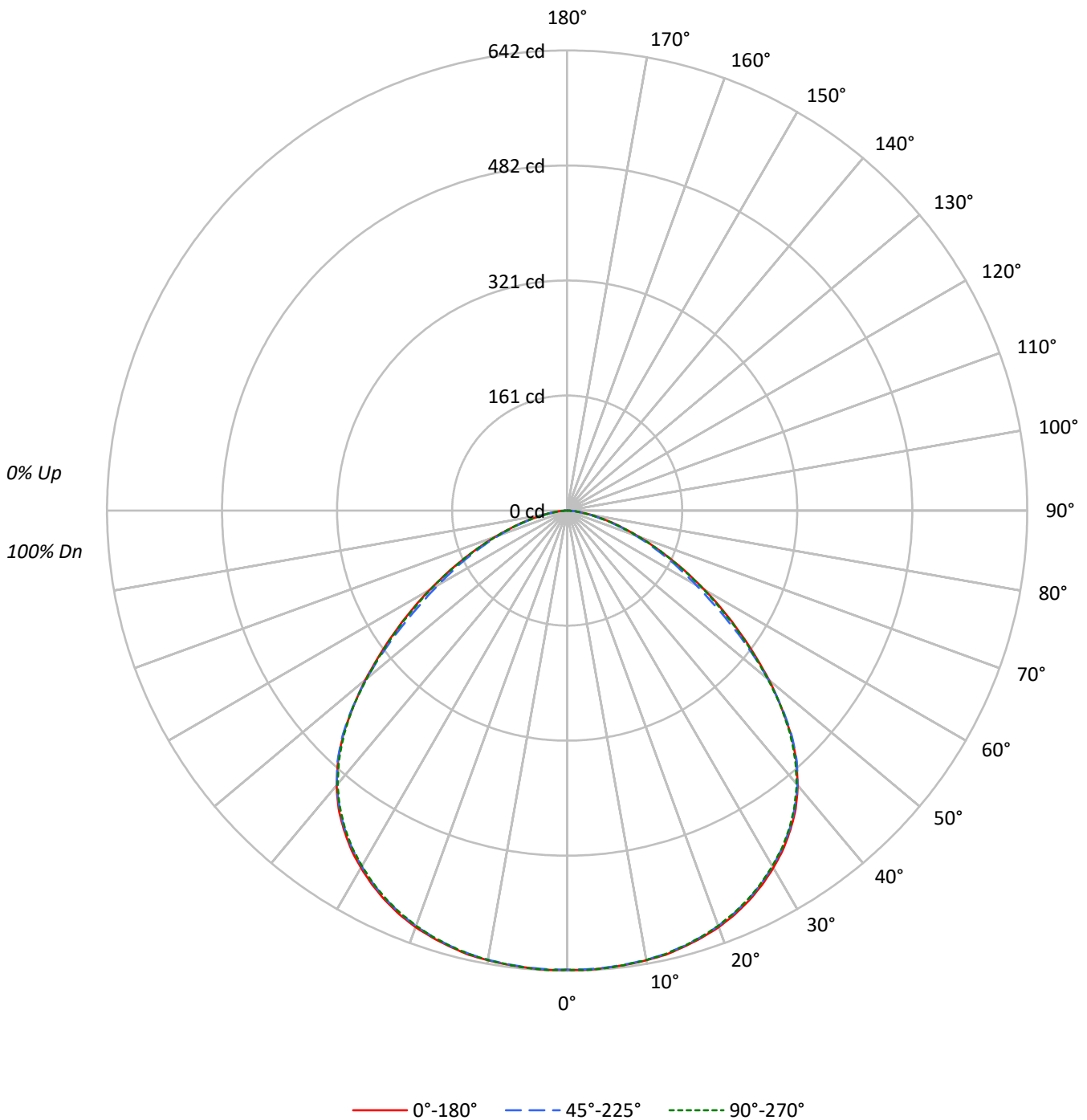
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 99.5 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°	1724	1724	1724
5°	1730	1728	1730
10°	1741	1739	1740
15°	1755	1752	1752
20°	1771	1766	1765
25°	1782	1777	1775
30°	1788	1781	1780
35°	1784	1779	1776
40°	1758	1756	1750
45°	1681	1686	1673
50°	1539	1530	1528
55°	1367	1319	1358
60°	1192	1119	1185
65°	1011	956	1005
70°	836	801	828
75°	676	632	649
80°	488	473	470
85°	318	318	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.6
10°-20°	177.8	10.6
20°-30°	275.9	16.4
30°-40°	338.3	20.1
40°-50°	338.2	20.1
50°-60°	256.2	15.2
60°-70°	153.6	9.1
70°-80°	67.7	4.0
80°-90°	13.4	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°	514.6	30.6
0°-40°	852.9	50.7
0°-60°	1447.3	86.0
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	640	640	640	640	640	61
15°	630	629	629	629	629	178
25°	600	599	598	598	598	277
35°	543	543	542	541	541	339
45°	442	442	443	442	440	338
55°	291	285	281	285	289	261
65°	159	153	150	153	158	159
75°	65	64	61	62	62	69
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°	640.7	640.7	640.7	640.7	640.7
2.5°	641.3	640.3	640.5	640.5	641.7
5°	640.3	639.5	639.7	639.5	640.5
7.5°	638.9	638.1	638.3	638.1	638.7
10°	637.1	636.3	636.3	635.9	636.7
12.5°	634.7	633.7	633.3	633.1	633.7
15°	630.0	629.4	629.0	628.6	629.0
17.5°	624.8	623.8	623.4	622.6	623.4
20°	618.5	617.1	616.7	616.1	616.3
22.5°	610.2	609.0	608.4	607.4	607.8
25°	600.3	599.1	598.5	597.5	597.9
27.5°	588.8	588.0	586.6	585.8	586.0
30°	575.5	574.7	573.1	572.7	572.7
32.5°	560.8	559.8	558.5	558.1	557.9
35°	543.2	543.0	541.6	541.2	540.6
37.5°	524.0	523.6	522.0	521.6	521.0
40°	500.4	500.0	499.8	499.0	498.2
42.5°	473.1	473.7	474.1	472.5	470.9
45°	441.6	442.2	443.0	441.8	439.6
47.5°	404.7	407.1	405.9	406.7	404.5
50°	367.5	367.5	365.5	366.3	365.1
52.5°	328.5	325.3	322.9	324.5	326.1
55°	291.4	285.1	281.1	284.9	289.4
57.5°	256.0	248.4	241.1	247.0	252.6
60°	221.5	212.8	208.0	212.4	220.1
62.5°	188.8	182.5	177.7	181.1	187.6
65°	158.7	153.1	150.2	152.7	157.9
67.5°	131.1	127.4	124.4	126.6	130.6
70°	106.2	105.2	101.8	102.8	105.2
72.5°	83.4	83.2	80.2	81.0	82.4
75°	65.0	63.6	60.8	61.8	62.4
77.5°	46.0	46.6	44.0	44.6	44.6
80°	31.5	32.5	30.5	30.1	30.3
82.5°	20.0	20.0	19.8	19.6	19.0
85°	10.3	10.7	10.3	9.9	9.9
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)