

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: P412358

Luminaire Tested: **22PD-20-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412358
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-L930
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

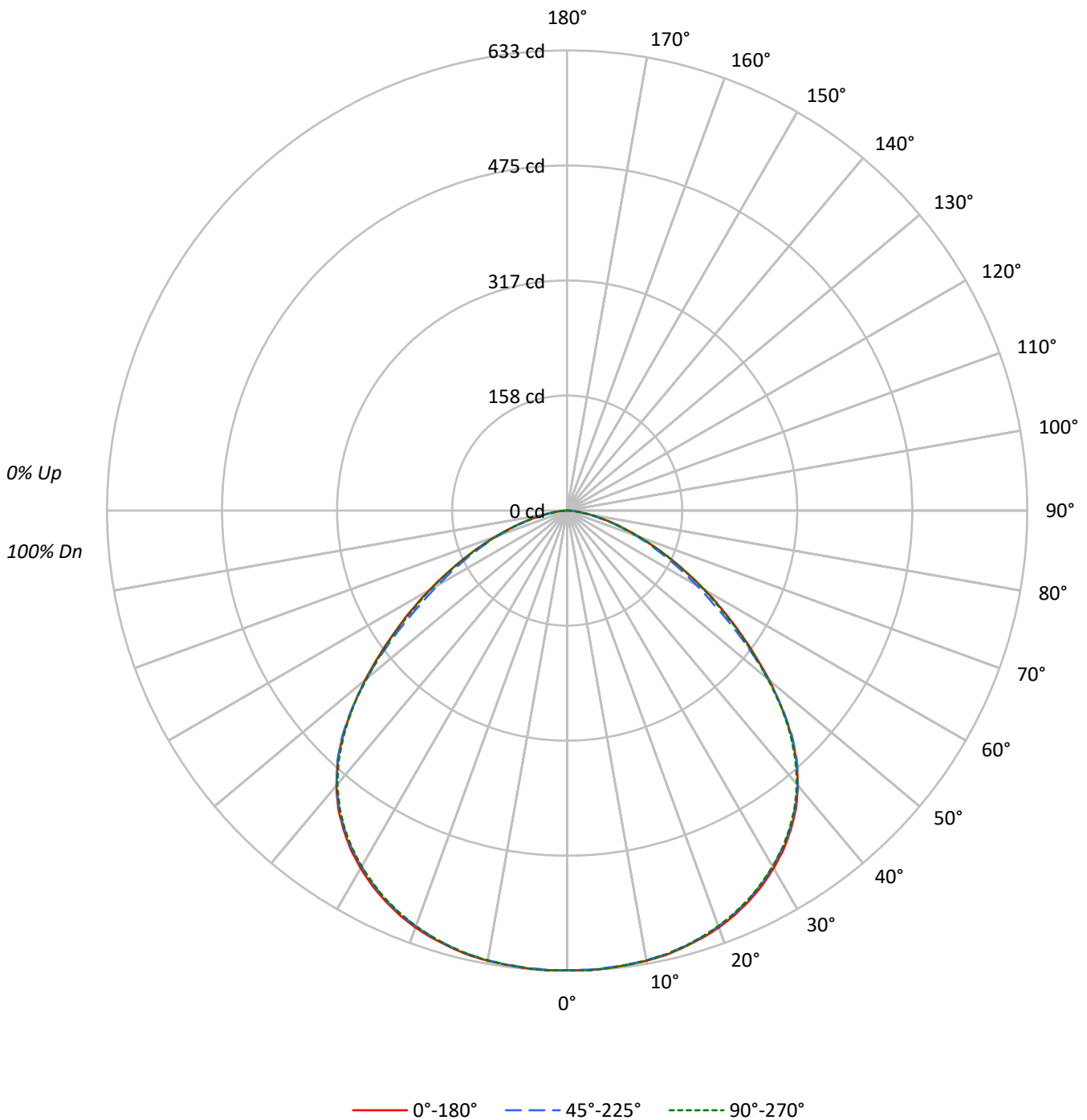
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 98.2 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°	1702	1702	1702
5°	1707	1705	1707
10°	1718	1716	1717
15°	1732	1729	1729
20°	1748	1743	1742
25°	1759	1754	1752
30°	1765	1757	1756
35°	1761	1756	1753
40°	1735	1733	1727
45°	1658	1664	1651
50°	1518	1510	1508
55°	1349	1301	1340
60°	1176	1105	1169
65°	997	944	992
70°	825	791	817
75°	666	624	640
80°	482	466	463
85°	315	315	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.6
10°-20°	175.5	10.6
20°-30°	272.3	16.4
30°-40°	333.9	20.1
40°-50°	333.8	20.1
50°-60°	252.8	15.2
60°-70°	151.6	9.1
70°-80°	66.8	4.0
80°-90°	13.3	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°	507.9	30.6
0°-40°	841.8	50.7
0°-60°	1428.4	86.0
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	632	631	631	631	632	60
15°	622	621	621	620	621	176
25°	592	591	591	590	590	273
35°	536	536	534	534	534	335
45°	436	436	437	436	434	334
55°	288	281	277	281	286	258
65°	157	151	148	151	156	157
75°	64	63	60	61	62	68
85°	10	11	10	10	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.3	632.3	632.3	632.3	632.3
2.5°	632.9	631.9	632.1	632.1	633.3
5°	631.9	631.1	631.3	631.1	632.1
7.5°	630.5	629.8	629.9	629.8	630.3
10°	628.8	628.0	628.0	627.6	628.4
12.5°	626.4	625.4	625.1	624.9	625.4
15°	621.7	621.1	620.8	620.4	620.8
17.5°	616.7	615.7	615.3	614.5	615.3
20°	610.4	609.0	608.6	608.0	608.2
22.5°	602.2	601.0	600.4	599.4	599.8
25°	592.4	591.2	590.6	589.7	590.1
27.5°	581.1	580.3	578.9	578.1	578.3
30°	568.0	567.2	565.6	565.2	565.2
32.5°	553.5	552.5	551.2	550.8	550.6
35°	536.1	535.9	534.5	534.1	533.6
37.5°	517.1	516.7	515.2	514.8	514.2
40°	493.9	493.5	493.3	492.5	491.7
42.5°	466.9	467.5	467.9	466.3	464.7
45°	435.8	436.4	437.2	436.0	433.8
47.5°	399.4	401.8	400.6	401.4	399.2
50°	362.7	362.7	360.7	361.5	360.3
52.5°	324.2	321.0	318.7	320.3	321.8
55°	287.6	281.3	277.4	281.1	285.6
57.5°	252.6	245.2	237.9	243.8	249.3
60°	218.6	210.0	205.3	209.6	217.2
62.5°	186.3	180.1	175.4	178.7	185.2
65°	156.6	151.1	148.2	150.7	155.8
67.5°	129.4	125.7	122.8	124.9	128.8
70°	104.8	103.8	100.5	101.5	103.8
72.5°	82.3	82.1	79.2	80.0	81.3
75°	64.1	62.8	60.0	61.0	61.6
77.5°	45.4	45.9	43.4	44.0	44.0
80°	31.1	32.1	30.1	29.7	29.9
82.5°	19.7	19.7	19.6	19.4	18.8
85°	10.2	10.6	10.2	9.8	9.8
87.5°	3.9	3.9	3.9	3.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)