

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: P412357

Luminaire Tested: **22PD-20-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412357
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-L927
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

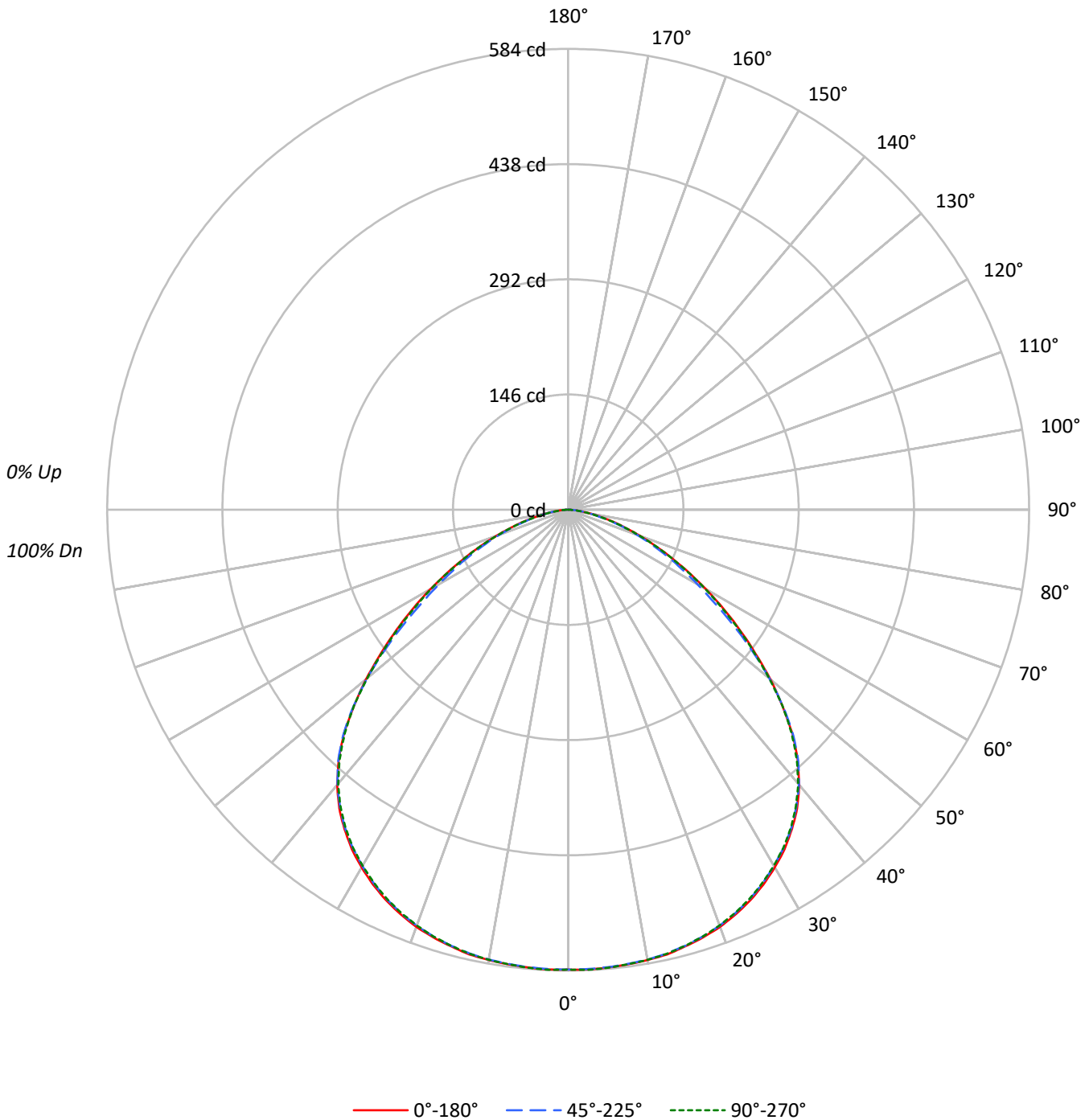
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.0 lumens
Efficiency: N/A
Efficacy: 90.5 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°	1568	1568	1568
5°	1573	1572	1574
10°	1583	1582	1583
15°	1596	1594	1594
20°	1611	1607	1605
25°	1621	1616	1615
30°	1627	1620	1619
35°	1623	1619	1616
40°	1599	1597	1592
45°	1529	1533	1522
50°	1400	1392	1390
55°	1244	1200	1235
60°	1084	1018	1077
65°	919	870	914
70°	760	729	753
75°	614	575	591
80°	445	431	428
85°	290	290	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.6
10°-20°	161.7	10.6
20°-30°	250.9	16.4
30°-40°	307.7	20.1
40°-50°	307.6	20.1
50°-60°	233.0	15.2
60°-70°	139.8	9.1
70°-80°	61.5	4.0
80°-90°	12.2	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°	468.1	30.6
0°-40°	775.9	50.7
0°-60°	1316.5	86.0
0°-90°	1530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	582	582	582	582	583	56
15°	573	572	572	572	572	162
25°	546	545	544	544	544	252
35°	494	494	493	492	492	309
45°	402	402	403	402	400	308
55°	265	259	256	259	263	238
65°	144	139	137	139	144	144
75°	59	58	55	56	57	63
85°	9	10	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582.8	582.8	582.8	582.8	582.8
2.5°	583.3	582.4	582.6	582.6	583.7
5°	582.4	581.7	581.9	581.7	582.6
7.5°	581.2	580.4	580.6	580.4	581.0
10°	579.5	578.8	578.8	578.5	579.2
12.5°	577.4	576.5	576.1	575.9	576.5
15°	573.0	572.5	572.1	571.8	572.1
17.5°	568.4	567.5	567.1	566.4	567.1
20°	562.6	561.3	561.0	560.4	560.6
22.5°	555.0	553.9	553.4	552.5	552.9
25°	546.0	544.9	544.4	543.5	543.9
27.5°	535.6	534.8	533.6	532.9	533.0
30°	523.5	522.8	521.3	521.0	521.0
32.5°	510.2	509.3	508.0	507.6	507.5
35°	494.1	493.9	492.7	492.3	491.8
37.5°	476.6	476.3	474.8	474.5	473.9
40°	455.2	454.8	454.7	453.9	453.2
42.5°	430.3	430.9	431.2	429.8	428.3
45°	401.7	402.2	402.9	401.9	399.9
47.5°	368.2	370.3	369.2	370.0	368.0
50°	334.3	334.3	332.5	333.2	332.1
52.5°	298.8	295.9	293.7	295.2	296.6
55°	265.1	259.3	255.7	259.1	263.3
57.5°	232.8	226.0	219.3	224.7	229.8
60°	201.5	193.5	189.2	193.2	200.2
62.5°	171.7	166.0	161.6	164.7	170.7
65°	144.3	139.3	136.6	138.9	143.6
67.5°	119.3	115.9	113.2	115.1	118.8
70°	96.6	95.7	92.6	93.5	95.7
72.5°	75.9	75.7	73.0	73.7	75.0
75°	59.1	57.8	55.3	56.2	56.8
77.5°	41.8	42.3	40.0	40.5	40.5
80°	28.7	29.6	27.8	27.4	27.6
82.5°	18.2	18.2	18.0	17.8	17.3
85°	9.4	9.7	9.4	9.0	9.0
87.5°	3.6	3.6	3.6	3.4	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)