

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: P413043

Luminaire Tested: **22PD-20-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-20-PC3-L935
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

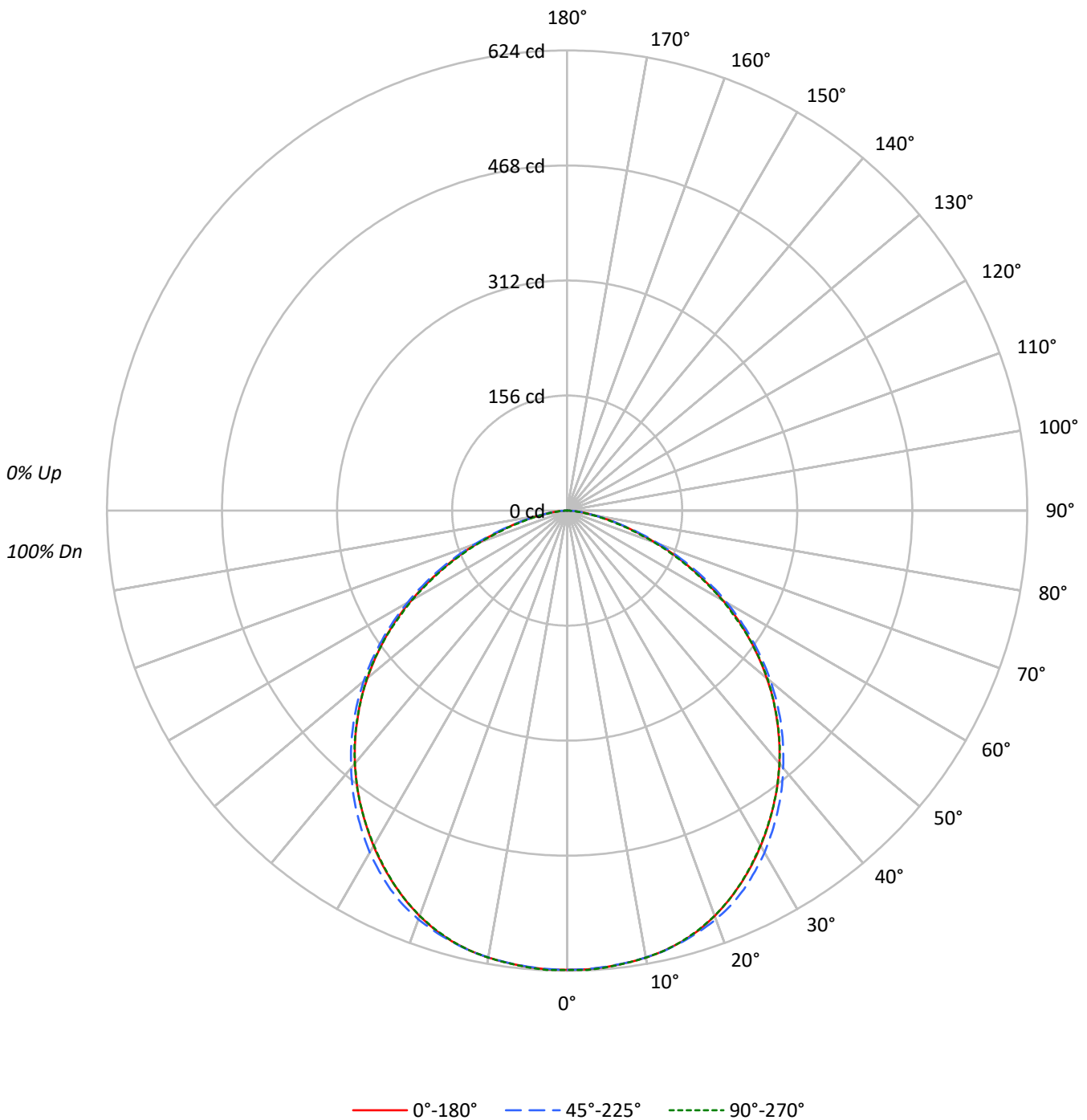
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1676	1676	1676
5°	1678	1677	1679
10°	1682	1682	1682
15°	1684	1686	1684
20°	1676	1689	1674
25°	1656	1683	1655
30°	1632	1664	1629
35°	1603	1635	1603
40°	1573	1601	1573
45°	1532	1562	1534
50°	1479	1508	1485
55°	1411	1438	1411
60°	1315	1349	1307
65°	1181	1222	1165
70°	1010	1046	980
75°	802	823	760
80°	573	595	547
85°	380	392	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.5
10°-20°	170.7	10.2
20°-30°	258.9	15.5
30°-40°	309.2	18.5
40°-50°	314.5	18.8
50°-60°	272.0	16.3
60°-70°	187.2	11.2
70°-80°	84.9	5.1
80°-90°	16.5	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°	488.7	29.2
0°-40°	797.9	47.7
0°-60°	1384.4	82.7
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	621	621	621	621	622	59
15°	604	605	605	604	604	171
25°	558	563	567	562	557	257
35°	488	497	498	496	488	305
45°	402	410	410	410	403	310
55°	301	306	307	306	301	269
65°	185	191	192	190	183	184
75°	77	80	79	78	73	83
85°	12	13	13	12	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.8	622.8	622.8	622.8	622.8
2.5°	622.8	622.0	622.2	622.4	623.5
5°	621.2	620.6	620.8	620.8	621.6
7.5°	618.6	618.4	618.4	618.2	618.8
10°	615.6	615.2	615.4	615.2	615.6
12.5°	611.1	611.1	611.3	610.7	611.1
15°	604.5	604.9	605.3	604.3	604.3
17.5°	596.2	597.2	598.2	596.4	595.4
20°	585.1	587.5	589.9	587.1	584.7
22.5°	572.2	576.2	579.8	575.4	572.2
25°	557.8	562.7	566.9	561.7	557.4
27.5°	542.1	547.7	551.6	547.3	541.3
30°	525.1	531.8	535.4	531.2	524.3
32.5°	506.9	514.8	517.0	514.4	506.5
35°	488.1	496.8	497.8	496.0	488.1
37.5°	468.5	476.8	477.6	476.6	468.5
40°	447.9	455.6	455.8	455.8	447.9
42.5°	425.9	433.4	433.4	433.2	426.5
45°	402.5	409.8	410.4	410.0	403.1
47.5°	379.3	384.9	385.9	385.1	378.9
50°	353.4	359.1	360.3	359.5	354.8
52.5°	327.6	333.0	334.2	333.6	328.2
55°	300.7	305.8	306.6	306.0	300.7
57.5°	274.7	278.1	278.9	277.7	271.0
60°	244.4	249.2	250.6	249.2	242.8
62.5°	215.1	220.3	221.5	219.5	212.7
65°	185.4	190.6	191.9	190.4	183.0
67.5°	157.3	161.0	162.2	160.4	153.7
70°	128.4	133.1	132.9	130.5	124.6
72.5°	99.8	106.4	105.2	103.8	97.3
75°	77.1	80.0	79.2	78.4	73.1
77.5°	55.1	58.6	56.7	56.8	52.3
80°	37.0	40.4	38.4	37.6	35.3
82.5°	23.6	25.0	24.6	24.2	22.0
85°	12.3	13.1	12.7	12.3	11.5
87.5°	4.8	5.2	4.8	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)