

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: P413044

Luminaire Tested: **22PD-20-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413044
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-L940
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

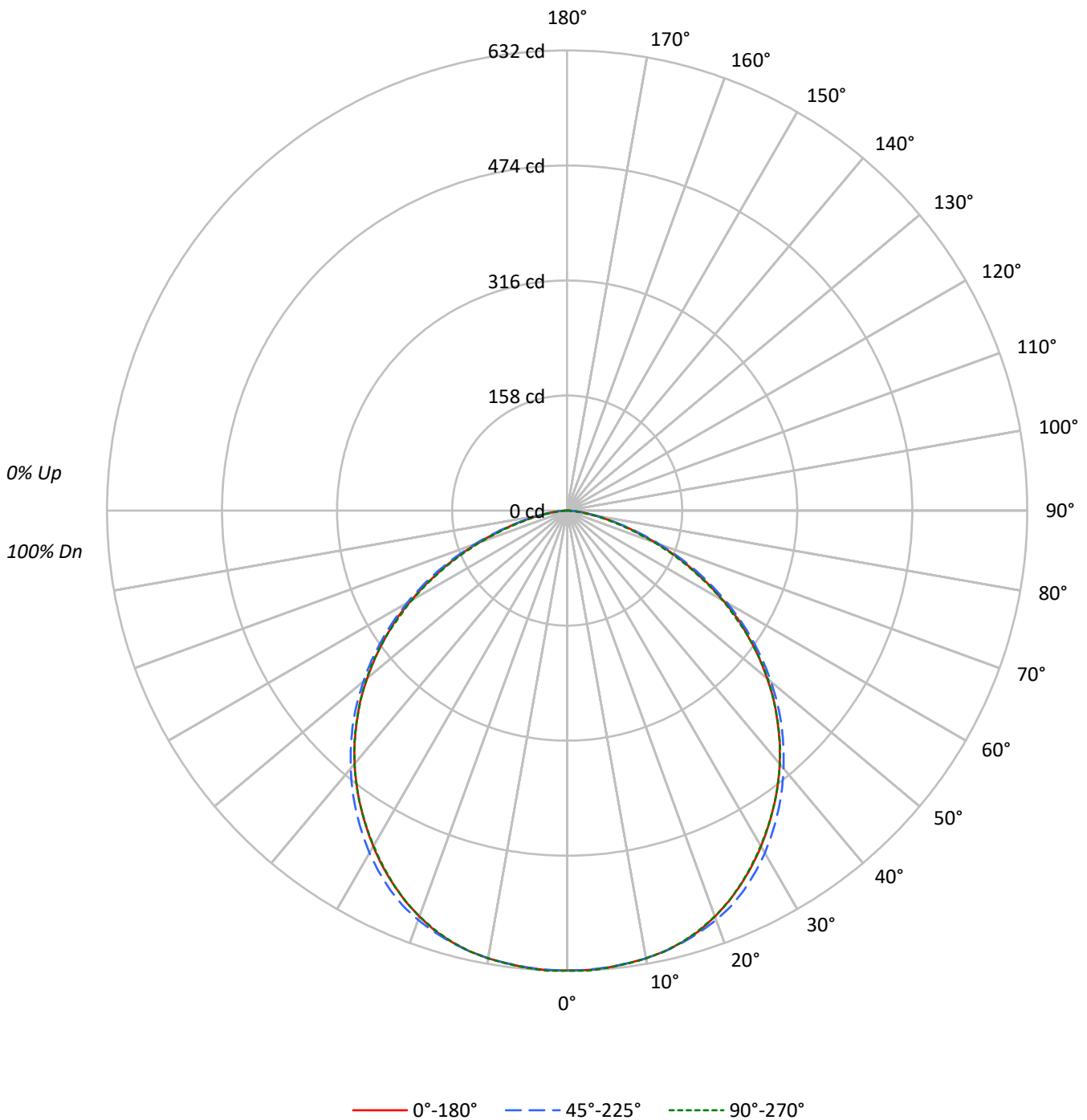
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1697.0 lumens
Efficiency: N/A
Efficacy: 100.4 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°	1700	1700	1700
5°	1702	1701	1703
10°	1706	1706	1706
15°	1708	1711	1708
20°	1700	1713	1698
25°	1680	1707	1679
30°	1655	1688	1652
35°	1626	1659	1626
40°	1596	1624	1596
45°	1554	1584	1556
50°	1500	1530	1506
55°	1431	1459	1431
60°	1334	1368	1326
65°	1198	1240	1182
70°	1024	1061	995
75°	813	836	770
80°	583	604	555
85°	386	398	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.5
10°-20°	173.1	10.2
20°-30°	262.6	15.5
30°-40°	313.7	18.5
40°-50°	319.0	18.8
50°-60°	275.9	16.3
60°-70°	189.9	11.2
70°-80°	86.2	5.1
80°-90°	16.7	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°	495.7	29.2
0°-40°	809.4	47.7
0°-60°	1404.3	82.8
0°-90°	1697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	630	630	630	630	630	60
15°	613	614	614	613	613	173
25°	566	571	575	570	565	261
35°	495	504	505	503	495	310
45°	408	416	416	416	409	315
55°	305	310	311	310	305	273
65°	188	193	195	193	186	187
75°	78	81	80	80	74	84
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°	631.7	631.7	631.7	631.7	631.7
2.5°	631.7	630.9	631.1	631.3	632.5
5°	630.1	629.5	629.7	629.7	630.5
7.5°	627.5	627.3	627.3	627.1	627.7
10°	624.5	624.1	624.3	624.1	624.5
12.5°	619.8	619.8	620.0	619.4	619.8
15°	613.2	613.6	614.0	613.0	613.0
17.5°	604.8	605.8	606.8	605.0	604.0
20°	593.5	595.9	598.3	595.5	593.1
22.5°	580.5	584.5	588.1	583.7	580.5
25°	565.8	570.8	575.0	569.8	565.4
27.5°	549.9	555.5	559.6	555.1	549.1
30°	532.6	539.5	543.1	538.9	531.8
32.5°	514.2	522.2	524.4	521.8	513.7
35°	495.1	503.9	504.9	503.1	495.1
37.5°	475.2	483.6	484.4	483.4	475.2
40°	454.3	462.1	462.3	462.3	454.3
42.5°	432.0	439.6	439.6	439.4	432.6
45°	408.3	415.7	416.3	415.9	408.9
47.5°	384.8	390.4	391.4	390.6	384.4
50°	358.4	364.3	365.5	364.7	359.8
52.5°	332.3	337.7	339.0	338.3	332.9
55°	305.0	310.2	311.0	310.4	305.0
57.5°	278.7	282.1	282.9	281.7	274.9
60°	247.9	252.8	254.2	252.8	246.3
62.5°	218.2	223.4	224.6	222.6	215.8
65°	188.1	193.3	194.7	193.1	185.6
67.5°	159.5	163.3	164.6	162.7	155.9
70°	130.2	135.0	134.8	132.4	126.4
72.5°	101.3	107.9	106.7	105.3	98.7
75°	78.2	81.2	80.4	79.6	74.1
77.5°	55.9	59.5	57.5	57.7	53.0
80°	37.6	41.0	39.0	38.2	35.8
82.5°	23.9	25.3	24.9	24.5	22.3
85°	12.5	13.3	12.9	12.5	11.7
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)