

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: P412400

Luminaire Tested: **22PD-45-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412400
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-45-PB1-L840
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

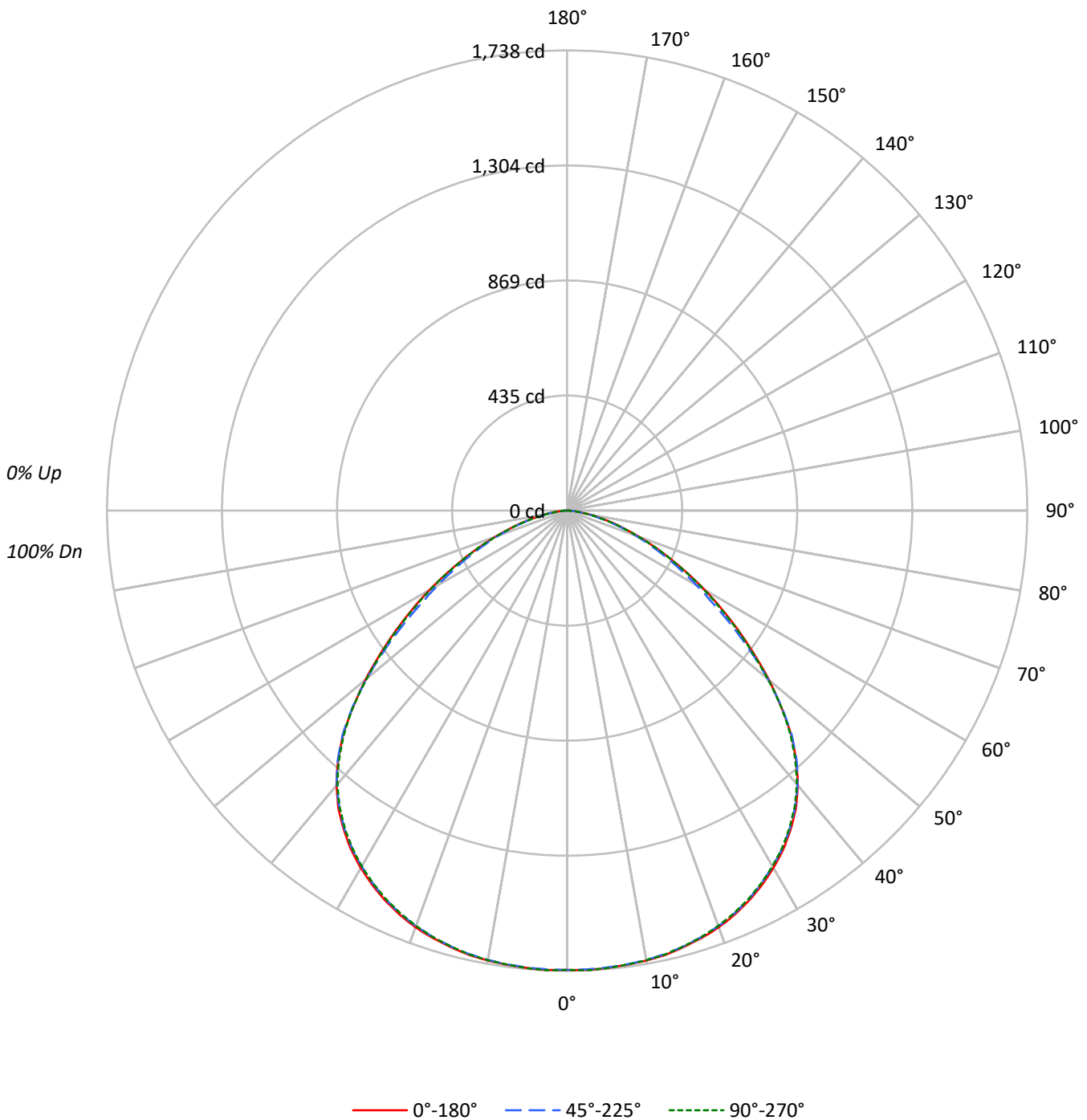
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.0 lumens
Efficiency: N/A
Efficacy: 119.2 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): 38.2
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	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									100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86									86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73									73																			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63									63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54									54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47									47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42									42																			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37									37																			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33									33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30									30																			
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27									27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4669	4669	4669
5°	4684	4679	4685
10°	4714	4709	4712
15°	4753	4745	4745
20°	4796	4783	4779
25°	4827	4812	4807
30°	4843	4823	4819
35°	4832	4819	4810
40°	4761	4755	4740
45°	4551	4565	4531
50°	4166	4144	4139
55°	3703	3572	3677
60°	3228	3032	3208
65°	2736	2590	2723
70°	2263	2170	2242
75°	1830	1712	1757
80°	1322	1280	1272
85°	861	861	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	3.6
10°-20°	481.5	10.6
20°-30°	747.1	16.4
30°-40°	916.2	20.1
40°-50°	915.8	20.1
50°-60°	693.7	15.2
60°-70°	416.1	9.1
70°-80°	183.2	4.0
80°-90°	36.3	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°	1393.7	30.6
0°-40°	2309.8	50.7
0°-60°	3919.4	86.0
0°-90°	4555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1734	1732	1732	1732	1734	165
15°	1706	1704	1703	1702	1703	482
25°	1626	1622	1621	1618	1619	749
35°	1471	1470	1467	1466	1464	919
45°	1196	1197	1200	1196	1190	915
55°	789	772	761	772	784	707
65°	430	415	407	414	428	430
75°	176	172	165	167	169	188
85°	28	29	28	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.0	1735.0	1735.0	1735.0	1735.0
2.5°	1736.6	1733.9	1734.5	1734.5	1737.7
5°	1733.9	1731.8	1732.3	1731.8	1734.5
7.5°	1730.2	1728.0	1728.6	1728.0	1729.6
10°	1725.3	1723.2	1723.2	1722.1	1724.3
12.5°	1718.9	1716.2	1715.1	1714.6	1716.2
15°	1706.0	1704.4	1703.3	1702.3	1703.3
17.5°	1692.1	1689.4	1688.3	1686.2	1688.3
20°	1674.9	1671.2	1670.1	1668.5	1669.0
22.5°	1652.4	1649.2	1647.5	1644.9	1645.9
25°	1625.6	1622.3	1620.7	1618.0	1619.1
27.5°	1594.4	1592.3	1588.5	1586.4	1586.9
30°	1558.5	1556.3	1552.1	1551.0	1551.0
32.5°	1518.8	1516.1	1512.4	1511.3	1510.7
35°	1471.0	1470.5	1466.8	1465.7	1464.1
37.5°	1419.0	1417.9	1413.6	1412.6	1411.0
40°	1355.2	1354.1	1353.6	1351.4	1349.3
42.5°	1281.1	1282.7	1283.8	1279.5	1275.2
45°	1195.8	1197.4	1199.6	1196.4	1190.5
47.5°	1096.0	1102.5	1099.3	1101.4	1095.5
50°	995.2	995.2	989.8	992.0	988.7
52.5°	889.5	880.9	874.5	878.8	883.1
55°	789.2	772.0	761.3	771.5	783.8
57.5°	693.1	672.8	652.9	669.0	684.0
60°	599.8	576.2	563.3	575.1	596.0
62.5°	511.3	494.1	481.2	490.3	508.1
65°	429.7	414.7	406.7	413.6	427.6
67.5°	355.2	345.0	336.9	342.8	353.5
70°	287.6	284.9	275.8	278.4	284.9
72.5°	225.9	225.3	217.3	219.4	223.2
75°	176.0	172.2	164.7	167.4	169.0
77.5°	124.5	126.1	119.1	120.7	120.7
80°	85.3	88.0	82.6	81.5	82.1
82.5°	54.2	54.2	53.6	53.1	51.5
85°	27.9	29.0	27.9	26.8	26.8
87.5°	10.7	10.7	10.7	10.2	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)