

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: P412538

Luminaire Tested: **24PD-55-PB1-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PB1-L930
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

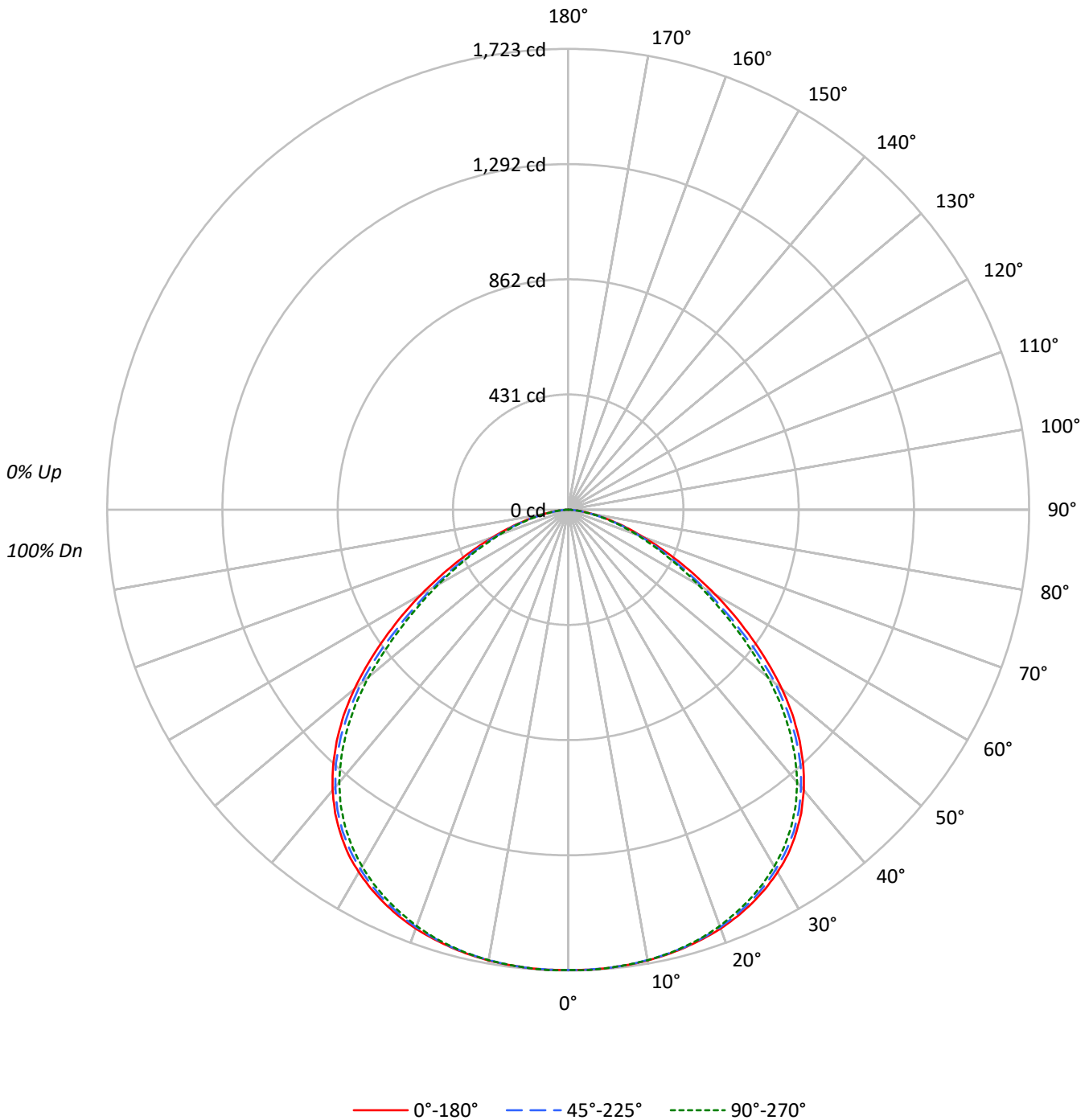
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4579.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (A_{in}): 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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2315	2315	2315
5°	2323	2323	2323
10°	2339	2336	2337
15°	2360	2356	2355
20°	2386	2378	2372
25°	2411	2399	2385
30°	2432	2412	2394
35°	2435	2414	2384
40°	2406	2378	2338
45°	2328	2286	2227
50°	2183	2116	2038
55°	1962	1846	1770
60°	1709	1572	1512
65°	1437	1330	1272
70°	1172	1113	1068
75°	939	906	868
80°	721	664	647
85°	451	437	437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	3.6
10°-20°	478.2	10.4
20°-30°	745.0	16.3
30°-40°	916.5	20.0
40°-50°	920.6	20.1
50°-60°	709.5	15.5
60°-70°	421.2	9.2
70°-80°	187.5	4.1
80°-90°	36.6	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°	1387.0	30.3
0°-40°	2303.5	50.3
0°-60°	3933.6	85.9
0°-90°	4579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1720	1720	1720	1718	1720	164
15°	1694	1694	1692	1689	1690	479
25°	1624	1624	1616	1609	1607	749
35°	1482	1480	1470	1457	1451	926
45°	1224	1220	1201	1181	1170	939
55°	836	820	787	763	754	748
65°	452	432	418	402	400	451
75°	181	177	174	168	167	195
85°	29	28	28	27	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.8	1720.8	1720.8	1720.8	1720.8
2.5°	1721.8	1721.3	1721.3	1719.5	1723.1
5°	1719.9	1720.4	1719.9	1718.1	1719.9
7.5°	1716.3	1716.7	1715.8	1714.0	1715.8
10°	1711.7	1711.7	1709.9	1709.0	1710.4
12.5°	1704.0	1704.0	1702.1	1700.8	1702.1
15°	1693.9	1693.9	1691.7	1688.9	1690.3
17.5°	1681.6	1681.6	1678.0	1674.3	1675.2
20°	1666.6	1666.1	1661.1	1656.1	1656.5
22.5°	1647.4	1647.0	1640.6	1634.6	1632.8
25°	1624.2	1623.7	1615.9	1608.6	1606.8
27.5°	1597.2	1595.4	1586.8	1578.5	1576.7
30°	1565.3	1564.0	1552.5	1544.3	1540.7
32.5°	1528.4	1524.7	1514.2	1504.2	1499.2
35°	1482.3	1480.0	1469.5	1457.2	1451.3
37.5°	1430.3	1428.0	1416.6	1402.9	1396.1
40°	1370.1	1368.3	1354.1	1340.0	1331.3
42.5°	1300.8	1299.4	1284.4	1264.8	1255.6
45°	1223.7	1220.5	1201.4	1181.3	1170.3
47.5°	1138.0	1132.5	1109.2	1090.1	1078.2
50°	1043.1	1035.8	1010.7	986.1	973.8
52.5°	940.5	927.7	901.7	873.4	861.6
55°	836.5	820.5	786.8	763.0	754.4
57.5°	734.8	711.5	679.6	662.7	654.0
60°	634.9	609.3	584.3	567.8	561.9
62.5°	539.6	518.1	496.7	480.3	476.6
65°	451.5	431.9	417.8	401.8	399.5
67.5°	369.4	360.3	347.5	333.9	332.0
70°	297.8	294.2	282.8	274.6	271.4
72.5°	237.6	234.0	225.8	219.8	218.9
75°	180.6	177.0	174.2	168.3	166.9
77.5°	128.6	129.1	126.8	123.6	124.5
80°	93.0	87.6	85.7	83.9	83.5
82.5°	57.0	53.8	52.5	52.0	52.9
85°	29.2	27.8	28.3	26.9	28.3
87.5°	10.0	10.0	10.5	10.0	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)