

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: P412546

Luminaire Tested: **24PD-60-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412546
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-60-PB1-L927
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

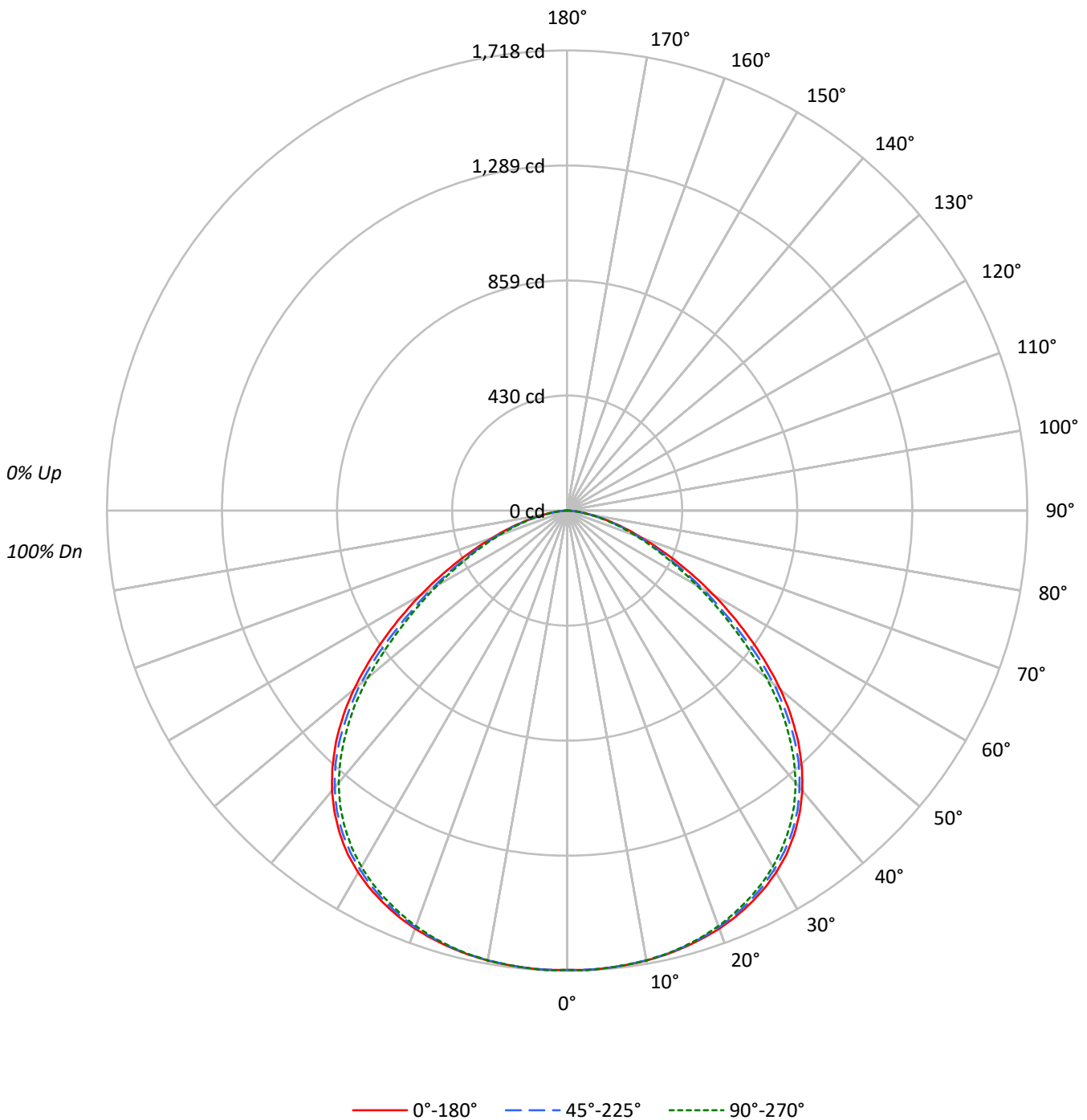
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564.0 lumens
Efficiency: N/A
Efficacy: 100.5 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): 45.4
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	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°	2308	2308	2308
5°	2315	2315	2315
10°	2331	2328	2329
15°	2352	2349	2347
20°	2378	2371	2364
25°	2403	2391	2378
30°	2424	2404	2386
35°	2427	2406	2376
40°	2399	2371	2331
45°	2321	2278	2220
50°	2176	2109	2032
55°	1956	1840	1764
60°	1703	1567	1507
65°	1433	1326	1268
70°	1168	1109	1064
75°	936	903	865
80°	718	662	645
85°	449	435	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.6
10°-20°	476.6	10.4
20°-30°	742.6	16.3
30°-40°	913.5	20.0
40°-50°	917.6	20.1
50°-60°	707.2	15.5
60°-70°	419.8	9.2
70°-80°	186.9	4.1
80°-90°	36.5	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°	1382.5	30.3
0°-40°	2296.0	50.3
0°-60°	3920.8	85.9
0°-90°	4564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1714	1715	1714	1712	1714	163
15°	1688	1688	1686	1683	1685	477
25°	1619	1618	1611	1603	1602	747
35°	1478	1475	1465	1452	1446	923
45°	1220	1216	1197	1177	1166	936
55°	834	818	784	760	752	746
65°	450	430	416	400	398	450
75°	180	176	174	168	166	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°	1715.2	1715.2	1715.2	1715.2	1715.2
2.5°	1716.1	1715.7	1715.7	1713.8	1717.5
5°	1714.3	1714.8	1714.3	1712.5	1714.3
7.5°	1710.7	1711.1	1710.2	1708.4	1710.2
10°	1706.1	1706.1	1704.3	1703.4	1704.8
12.5°	1698.4	1698.4	1696.6	1695.2	1696.6
15°	1688.4	1688.4	1686.1	1683.4	1684.8
17.5°	1676.1	1676.1	1672.5	1668.8	1669.7
20°	1661.1	1660.7	1655.7	1650.7	1651.1
22.5°	1642.0	1641.6	1635.2	1629.3	1627.5
25°	1618.8	1618.4	1610.7	1603.4	1601.6
27.5°	1592.0	1590.2	1581.6	1573.4	1571.6
30°	1560.2	1558.8	1547.5	1539.3	1535.6
32.5°	1523.4	1519.7	1509.3	1499.3	1494.3
35°	1477.5	1475.2	1464.7	1452.5	1446.5
37.5°	1425.6	1423.4	1412.0	1398.4	1391.5
40°	1365.6	1363.8	1349.7	1335.6	1327.0
42.5°	1296.5	1295.2	1280.2	1260.6	1251.5
45°	1219.7	1216.5	1197.4	1177.4	1166.5
47.5°	1134.2	1128.8	1105.6	1086.5	1074.7
50°	1039.7	1032.4	1007.4	982.8	970.6
52.5°	937.4	924.7	898.7	870.6	858.7
55°	833.7	817.8	784.2	760.5	751.9
57.5°	732.4	709.2	677.4	660.5	651.9
60°	632.8	607.3	582.3	566.0	560.1
62.5°	537.8	516.4	495.1	478.7	475.1
65°	450.1	430.5	416.4	400.5	398.2
67.5°	368.2	359.1	346.4	332.8	330.9
70°	296.9	293.2	281.9	273.7	270.5
72.5°	236.8	233.2	225.0	219.1	218.2
75°	180.0	176.4	173.7	167.7	166.4
77.5°	128.2	128.7	126.4	123.2	124.1
80°	92.7	87.3	85.5	83.6	83.2
82.5°	56.8	53.6	52.3	51.8	52.7
85°	29.1	27.7	28.2	26.8	28.2
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)