

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: P412528

Luminaire Tested: **24PD-50-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412528
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-50-PB1-L927
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

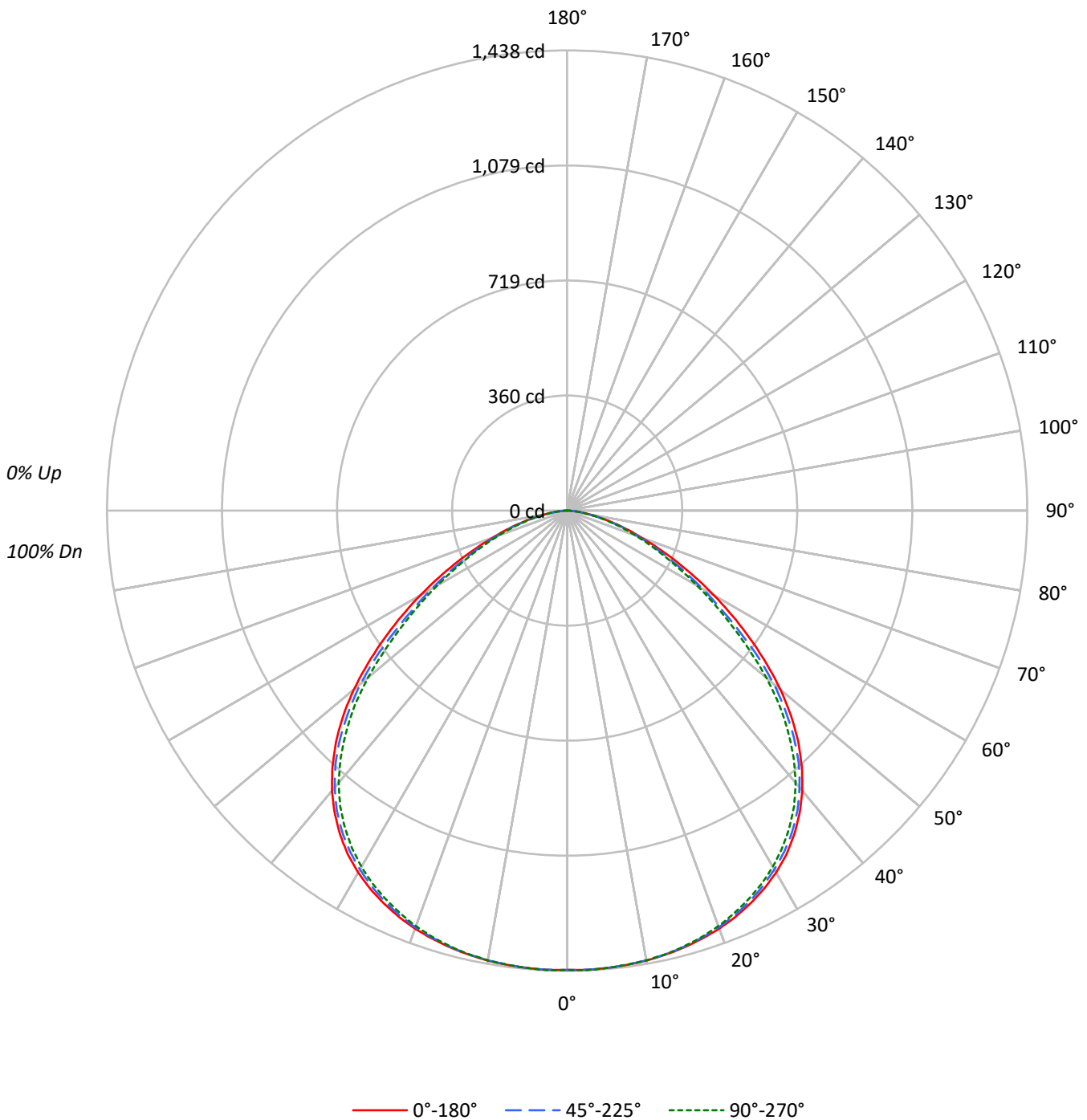
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3820.0 lumens
Efficiency: N/A
Efficacy: 101.9 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): 37.5
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°	1932	1932	1932
5°	1938	1938	1938
10°	1951	1949	1949
15°	1969	1966	1964
20°	1991	1984	1979
25°	2011	2001	1990
30°	2029	2012	1997
35°	2031	2014	1989
40°	2008	1984	1951
45°	1943	1907	1858
50°	1822	1765	1701
55°	1637	1540	1476
60°	1425	1312	1262
65°	1199	1110	1061
70°	978	928	891
75°	783	755	724
80°	601	554	539
85°	377	364	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.6
10°-20°	398.9	10.4
20°-30°	621.5	16.3
30°-40°	764.6	20.0
40°-50°	768.0	20.1
50°-60°	591.9	15.5
60°-70°	351.4	9.2
70°-80°	156.4	4.1
80°-90°	30.6	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°	1157.1	30.3
0°-40°	1921.7	50.3
0°-60°	3281.6	85.9
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1435	1435	1435	1433	1435	137
15°	1413	1413	1411	1409	1410	400
25°	1355	1355	1348	1342	1340	625
35°	1237	1235	1226	1216	1211	772
45°	1021	1018	1002	986	976	784
55°	698	684	656	637	629	624
65°	377	360	348	335	333	376
75°	151	148	145	140	139	163
85°	24	23	24	22	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.6	1435.6	1435.6	1435.6	1435.6
2.5°	1436.4	1436.0	1436.0	1434.5	1437.5
5°	1434.8	1435.2	1434.8	1433.3	1434.8
7.5°	1431.8	1432.2	1431.4	1429.9	1431.4
10°	1428.0	1428.0	1426.5	1425.7	1426.9
12.5°	1421.5	1421.5	1420.0	1418.9	1420.0
15°	1413.2	1413.2	1411.3	1409.0	1410.1
17.5°	1402.9	1402.9	1399.8	1396.8	1397.6
20°	1390.3	1389.9	1385.8	1381.6	1382.0
22.5°	1374.3	1374.0	1368.6	1363.7	1362.2
25°	1354.9	1354.6	1348.1	1342.0	1340.5
27.5°	1332.5	1331.0	1323.7	1316.9	1315.4
30°	1305.9	1304.7	1295.2	1288.4	1285.3
32.5°	1275.0	1272.0	1263.2	1254.9	1250.7
35°	1236.6	1234.7	1226.0	1215.7	1210.7
37.5°	1193.2	1191.3	1181.8	1170.4	1164.7
40°	1143.0	1141.5	1129.7	1117.9	1110.7
42.5°	1085.2	1084.0	1071.5	1055.1	1047.5
45°	1020.9	1018.2	1002.2	985.5	976.3
47.5°	949.3	944.8	925.4	909.4	899.5
50°	870.2	864.1	843.2	822.6	812.4
52.5°	784.6	773.9	752.2	728.6	718.8
55°	697.8	684.5	656.4	636.6	629.3
57.5°	613.0	593.6	566.9	552.9	545.6
60°	529.6	508.3	487.4	473.7	468.8
62.5°	450.1	432.2	414.4	400.7	397.6
65°	376.7	360.3	348.5	335.2	333.3
67.5°	308.2	300.6	289.9	278.5	277.0
70°	248.5	245.4	235.9	229.1	226.4
72.5°	198.2	195.2	188.3	183.4	182.6
75°	150.7	147.6	145.3	140.4	139.3
77.5°	107.3	107.7	105.8	103.1	103.9
80°	77.6	73.1	71.5	70.0	69.6
82.5°	47.6	44.9	43.8	43.4	44.1
85°	24.4	23.2	23.6	22.4	23.6
87.5°	8.4	8.4	8.8	8.4	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)