

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: P412509

Luminaire Tested: **24PD-40-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412509
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-40-PB1-L850
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

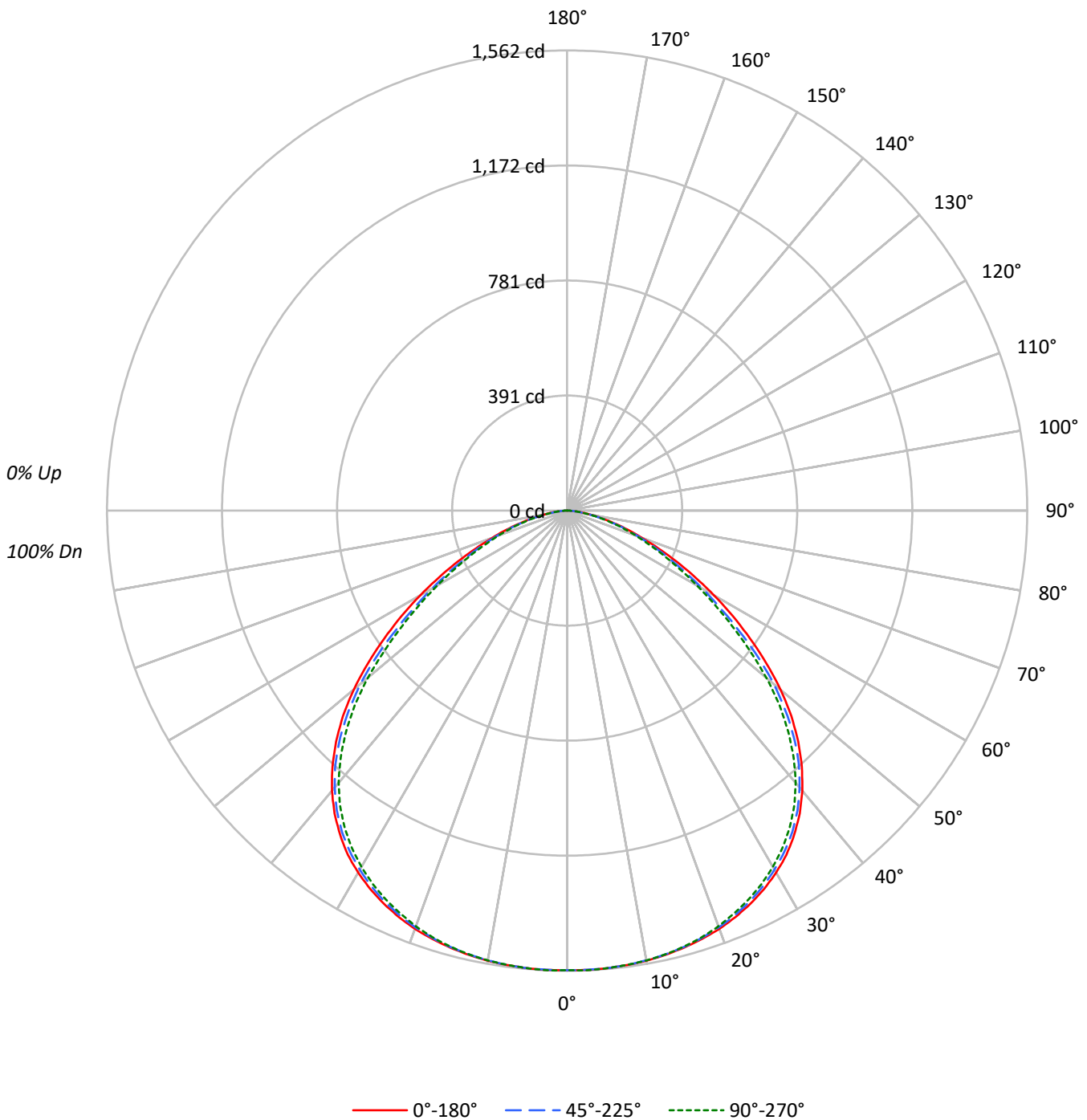
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4151.0 lumens
Efficiency: N/A
Efficacy: 139.8 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): 29.7
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°	2099	2099	2099
5°	2106	2106	2106
10°	2120	2118	2118
15°	2139	2136	2134
20°	2163	2156	2150
25°	2186	2175	2162
30°	2205	2187	2170
35°	2207	2188	2161
40°	2181	2156	2120
45°	2111	2072	2019
50°	1979	1918	1848
55°	1779	1673	1604
60°	1549	1425	1371
65°	1303	1206	1153
70°	1062	1008	968
75°	851	821	787
80°	653	602	587
85°	409	395	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.6
10°-20°	433.5	10.4
20°-30°	675.4	16.3
30°-40°	830.8	20.0
40°-50°	834.5	20.1
50°-60°	643.2	15.5
60°-70°	381.8	9.2
70°-80°	170.0	4.1
80°-90°	33.2	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°	1257.4	30.3
0°-40°	2088.2	50.3
0°-60°	3566.0	85.9
0°-90°	4151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1559	1560	1559	1558	1559	149
15°	1536	1536	1534	1531	1532	434
25°	1472	1472	1465	1458	1457	679
35°	1344	1342	1332	1321	1316	839
45°	1109	1106	1089	1071	1061	851
55°	758	744	713	692	684	678
65°	409	392	379	364	362	409
75°	164	160	158	153	151	177
85°	26	25	26	24	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1560.8	1560.4	1560.4	1558.8	1562.1
5°	1559.2	1559.6	1559.2	1557.5	1559.2
7.5°	1555.9	1556.3	1555.5	1553.8	1555.5
10°	1551.7	1551.7	1550.1	1549.2	1550.5
12.5°	1544.7	1544.7	1543.0	1541.8	1543.0
15°	1535.6	1535.6	1533.5	1531.1	1532.3
17.5°	1524.4	1524.4	1521.1	1517.8	1518.7
20°	1510.8	1510.4	1505.8	1501.3	1501.7
22.5°	1493.4	1493.0	1487.2	1481.9	1480.2
25°	1472.3	1471.9	1464.9	1458.3	1456.6
27.5°	1448.0	1446.3	1438.4	1431.0	1429.3
30°	1419.0	1417.8	1407.4	1400.0	1396.7
32.5°	1385.5	1382.2	1372.7	1363.6	1359.1
35°	1343.8	1341.7	1332.2	1321.0	1315.6
37.5°	1296.6	1294.6	1284.2	1271.8	1265.6
40°	1242.0	1240.4	1227.6	1214.8	1206.9
42.5°	1179.2	1178.0	1164.3	1146.5	1138.3
45°	1109.3	1106.4	1089.1	1070.9	1060.9
47.5°	1031.6	1026.6	1005.5	988.2	977.4
50°	945.6	939.0	916.2	893.9	882.7
52.5°	852.6	841.0	817.4	791.8	781.0
55°	758.3	743.8	713.2	691.7	683.9
57.5°	666.1	645.0	616.1	600.8	592.9
60°	575.5	552.4	529.6	514.8	509.4
62.5°	489.1	469.7	450.3	435.4	432.1
65°	409.3	391.6	378.7	364.3	362.2
67.5°	334.9	326.6	315.1	302.7	301.0
70°	270.0	266.7	256.3	248.9	246.0
72.5°	215.4	212.1	204.7	199.3	198.5
75°	163.7	160.4	157.9	152.6	151.3
77.5°	116.6	117.0	114.9	112.0	112.9
80°	84.3	79.4	77.7	76.1	75.7
82.5°	51.7	48.8	47.5	47.1	48.0
85°	26.5	25.2	25.6	24.4	25.6
87.5°	9.1	9.1	9.5	9.1	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)