

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: P412856

Luminaire Tested: **24PD-40-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-40-PP3-L950
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

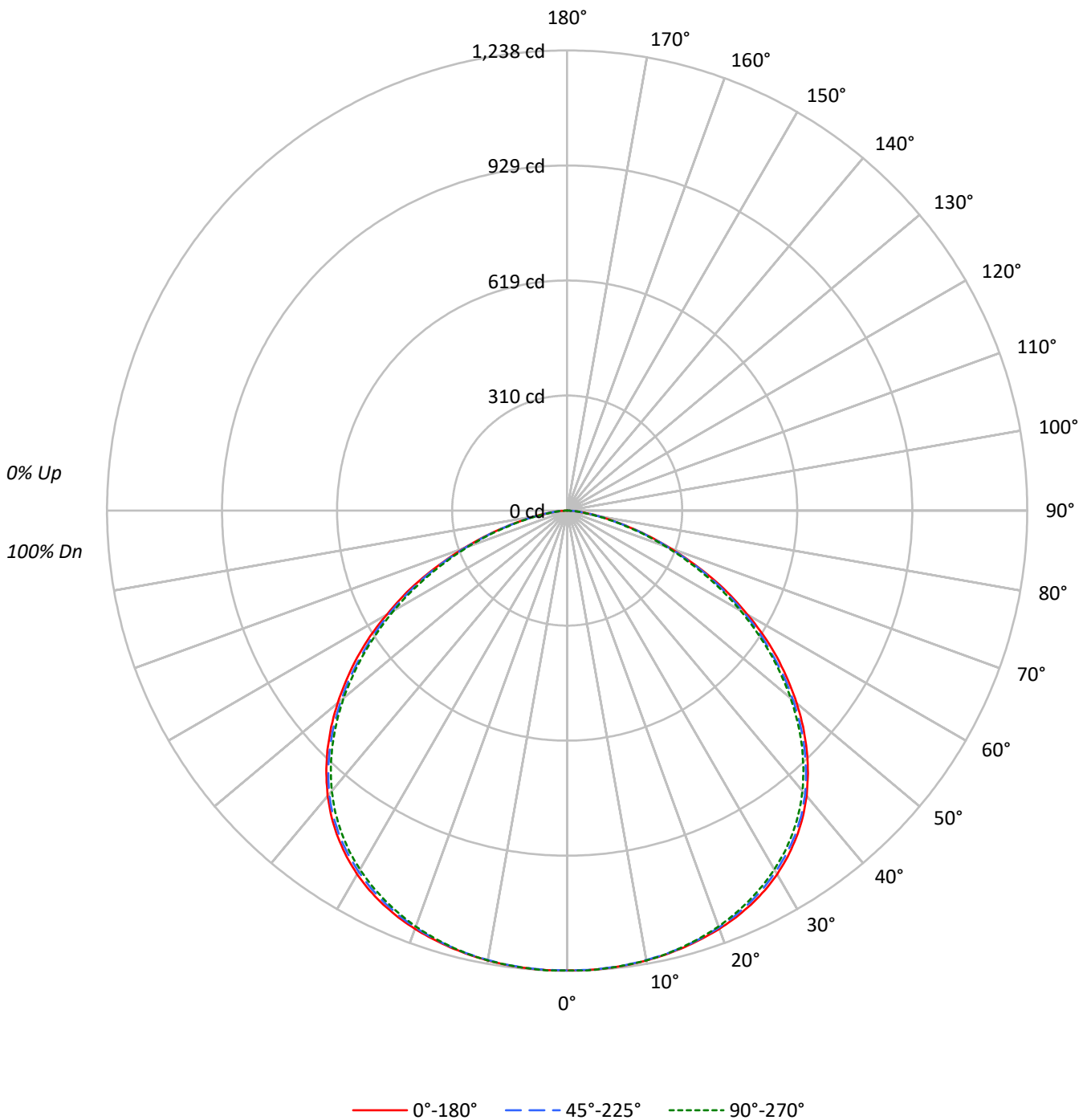
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1665	1665	1665
5°	1669	1669	1670
10°	1680	1678	1679
15°	1694	1692	1691
20°	1715	1709	1705
25°	1736	1727	1719
30°	1756	1743	1732
35°	1765	1754	1738
40°	1760	1750	1730
45°	1735	1718	1699
50°	1688	1661	1643
55°	1618	1579	1559
60°	1507	1481	1451
65°	1366	1339	1300
70°	1166	1145	1108
75°	911	901	858
80°	672	644	607
85°	406	406	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.3
10°-20°	343.5	9.5
20°-30°	536.9	14.9
30°-40°	667.2	18.5
40°-50°	695.2	19.3
50°-60°	603.2	16.8
60°-70°	414.8	11.5
70°-80°	187.2	5.2
80°-90°	34.3	1.0
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°	998.1	27.7
0°-40°	1665.3	46.3
0°-60°	2963.7	82.3
0°-90°	3600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1236	1236	1235	1234	1236	118
15°	1216	1216	1215	1214	1214	344
25°	1170	1169	1164	1159	1158	540
35°	1075	1075	1068	1062	1058	672
45°	912	912	903	896	893	702
55°	690	686	673	665	664	615
65°	429	427	421	410	408	424
75°	175	176	173	169	165	191
85°	26	26	26	26	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.2	1237.2	1237.2	1237.2	1237.2
2.5°	1237.6	1237.6	1236.9	1235.8	1238.3
5°	1235.8	1236.1	1235.4	1234.3	1236.1
7.5°	1233.3	1233.6	1232.5	1231.5	1232.9
10°	1229.3	1228.9	1227.9	1227.1	1228.9
12.5°	1223.5	1223.2	1222.1	1221.4	1222.8
15°	1216.3	1216.3	1214.6	1213.5	1213.8
17.5°	1207.7	1207.7	1205.2	1202.7	1203.4
20°	1197.6	1197.3	1193.7	1191.2	1190.8
22.5°	1185.0	1185.0	1180.0	1176.8	1175.7
25°	1169.6	1169.2	1163.5	1158.8	1158.1
27.5°	1152.0	1151.2	1144.4	1139.7	1137.9
30°	1130.0	1129.3	1122.1	1117.1	1114.9
32.5°	1104.1	1105.2	1096.9	1091.2	1089.0
35°	1074.6	1074.6	1068.1	1062.0	1058.4
37.5°	1040.8	1040.8	1034.7	1028.6	1024.2
40°	1002.3	1002.7	996.2	988.6	985.0
42.5°	959.1	959.8	951.2	945.1	941.1
45°	912.0	912.4	903.0	896.2	892.9
47.5°	860.9	860.2	849.8	844.0	840.8
50°	806.2	804.8	793.3	787.9	785.0
52.5°	749.0	746.1	736.1	728.2	725.6
55°	689.7	685.7	673.1	665.2	664.5
57.5°	627.8	623.1	612.7	605.1	602.2
60°	560.1	559.1	550.4	541.4	539.3
62.5°	496.8	493.6	486.0	475.2	474.2
65°	429.2	427.4	420.6	410.5	408.3
67.5°	359.4	361.2	355.4	346.4	343.6
70°	296.4	297.5	291.0	282.8	281.7
72.5°	233.1	234.9	229.5	224.1	223.1
75°	175.2	175.9	173.4	168.7	165.1
77.5°	124.5	127.0	124.1	120.9	118.0
80°	86.7	82.7	83.1	81.7	78.4
82.5°	52.2	50.4	50.0	48.6	47.1
85°	26.3	25.9	26.3	25.9	24.5
87.5°	8.6	9.4	9.7	9.7	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)