

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: P412864

Luminaire Tested: **24PD-45-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412864
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-45-PP3-L940
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

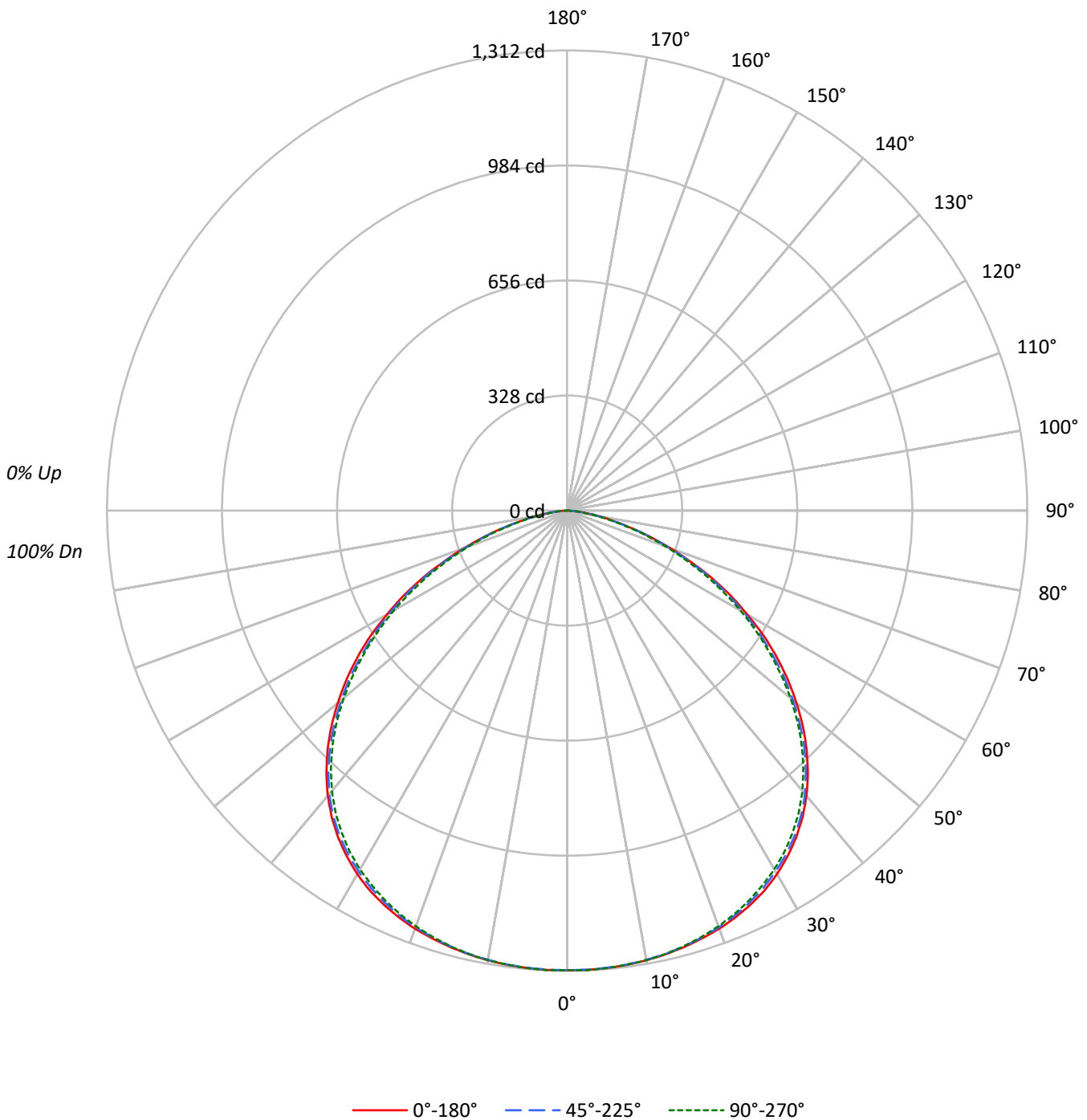
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3813.0 lumens
Efficiency: N/A
Efficacy: 114.2 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): 33.4
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	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°	1763	1763	1763
5°	1768	1767	1768
10°	1779	1777	1778
15°	1795	1792	1791
20°	1816	1810	1806
25°	1839	1829	1821
30°	1860	1846	1835
35°	1870	1858	1841
40°	1865	1853	1832
45°	1838	1820	1800
50°	1787	1759	1740
55°	1714	1672	1651
60°	1597	1569	1537
65°	1447	1418	1377
70°	1235	1213	1174
75°	965	955	909
80°	711	682	644
85°	429	429	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.3
10°-20°	363.8	9.5
20°-30°	568.6	14.9
30°-40°	706.7	18.5
40°-50°	736.3	19.3
50°-60°	638.9	16.8
60°-70°	439.3	11.5
70°-80°	198.3	5.2
80°-90°	36.3	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°	1057.1	27.7
0°-40°	1763.8	46.3
0°-60°	3139.1	82.3
0°-90°	3813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1309	1309	1308	1307	1309	125
15°	1288	1288	1286	1285	1286	364
25°	1239	1238	1232	1227	1227	571
35°	1138	1138	1131	1125	1121	711
45°	966	966	956	949	946	743
55°	730	726	713	705	704	651
65°	455	453	445	435	432	449
75°	186	186	184	179	175	202
85°	28	27	28	27	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1310.8	1310.8	1310.0	1308.9	1311.6
5°	1308.9	1309.3	1308.5	1307.4	1309.3
7.5°	1306.2	1306.6	1305.5	1304.3	1305.8
10°	1302.0	1301.7	1300.5	1299.7	1301.7
12.5°	1295.9	1295.6	1294.4	1293.7	1295.2
15°	1288.3	1288.3	1286.4	1285.3	1285.6
17.5°	1279.2	1279.2	1276.5	1273.8	1274.6
20°	1268.5	1268.1	1264.3	1261.6	1261.3
22.5°	1255.2	1255.2	1249.8	1246.4	1245.3
25°	1238.8	1238.4	1232.3	1227.3	1226.6
27.5°	1220.1	1219.3	1212.1	1207.2	1205.2
30°	1196.9	1196.1	1188.5	1183.1	1180.9
32.5°	1169.4	1170.6	1161.8	1155.7	1153.4
35°	1138.2	1138.2	1131.3	1124.8	1121.0
37.5°	1102.4	1102.4	1095.9	1089.4	1084.8
40°	1061.6	1062.0	1055.1	1047.1	1043.3
42.5°	1015.9	1016.6	1007.5	1001.0	996.8
45°	966.0	966.3	956.4	949.2	945.8
47.5°	911.8	911.1	900.0	893.9	890.5
50°	853.9	852.4	840.2	834.5	831.4
52.5°	793.3	790.3	779.6	771.2	768.6
55°	730.5	726.3	712.9	704.6	703.8
57.5°	664.9	660.0	648.9	640.9	637.9
60°	593.3	592.1	583.0	573.5	571.2
62.5°	526.2	522.8	514.8	503.4	502.2
65°	454.6	452.7	445.4	434.8	432.5
67.5°	380.7	382.6	376.5	366.9	363.9
70°	314.0	315.1	308.3	299.5	298.4
72.5°	246.9	248.8	243.1	237.4	236.2
75°	185.6	186.3	183.7	178.7	174.9
77.5°	131.8	134.5	131.5	128.0	125.0
80°	91.8	87.6	88.0	86.5	83.1
82.5°	55.3	53.3	53.0	51.4	49.9
85°	27.8	27.4	27.8	27.4	25.9
87.5°	9.1	9.9	10.3	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)