

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: P412871

Luminaire Tested: **24PD-50-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412871
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-50-PP3-L930
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

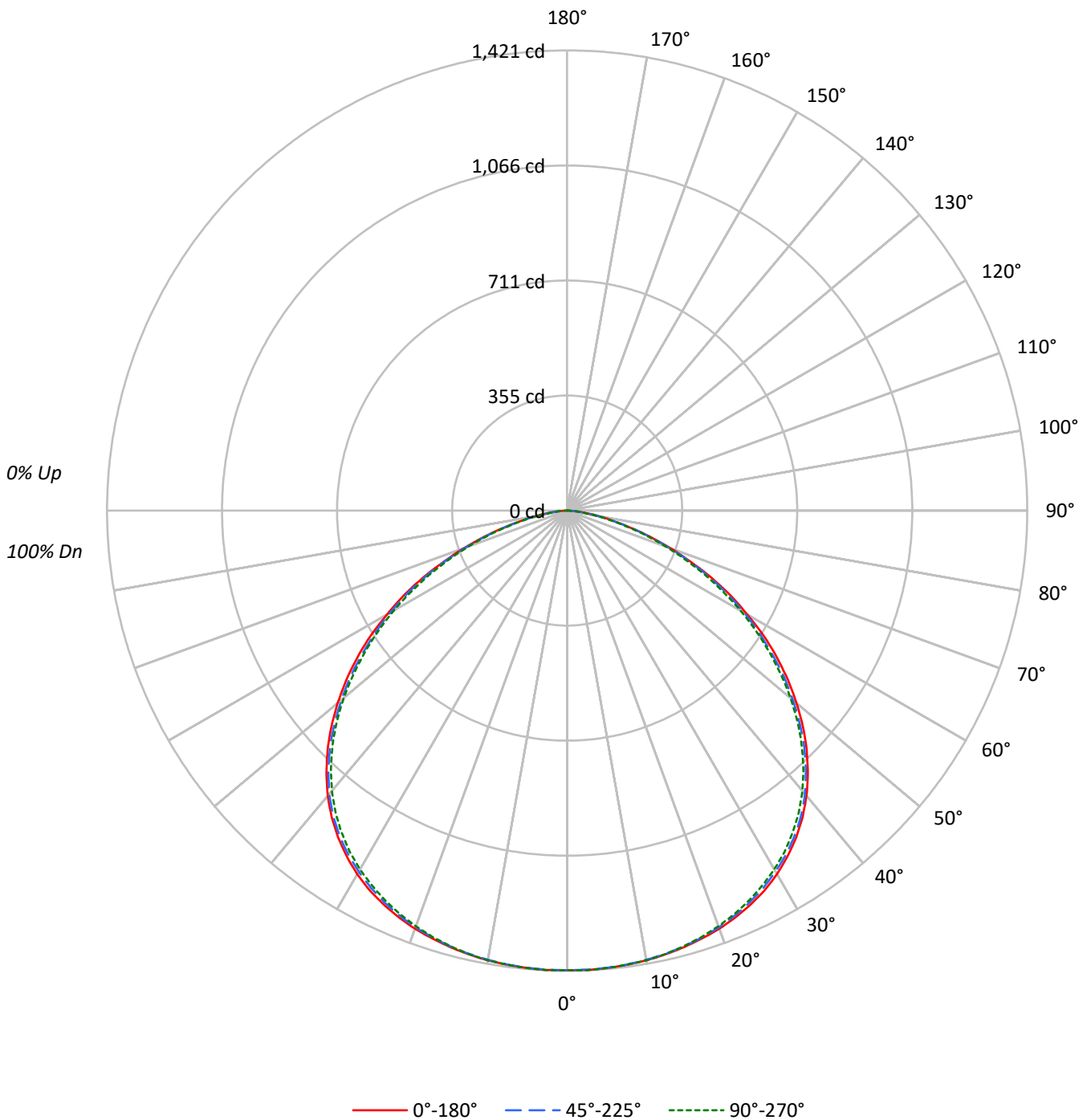
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.0 lumens
Efficiency: N/A
Efficacy: 110.1 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): 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	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°	1910	1910	1910
5°	1915	1914	1915
10°	1927	1924	1926
15°	1944	1941	1940
20°	1967	1961	1956
25°	1992	1982	1972
30°	2014	2000	1987
35°	2025	2013	1994
40°	2020	2007	1985
45°	1991	1971	1949
50°	1936	1905	1885
55°	1856	1811	1788
60°	1729	1699	1665
65°	1568	1536	1491
70°	1338	1314	1271
75°	1045	1034	985
80°	771	738	697
85°	465	465	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.3
10°-20°	394.0	9.5
20°-30°	615.9	14.9
30°-40°	765.5	18.5
40°-50°	797.5	19.3
50°-60°	692.1	16.8
60°-70°	475.9	11.5
70°-80°	214.7	5.2
80°-90°	39.3	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°	1145.0	27.7
0°-40°	1910.4	46.3
0°-60°	3400.0	82.3
0°-90°	4130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1418	1418	1417	1416	1418	135
15°	1395	1395	1393	1392	1392	395
25°	1342	1341	1335	1329	1329	619
35°	1233	1233	1225	1218	1214	770
45°	1046	1047	1036	1028	1024	805
55°	791	787	772	763	762	705
65°	492	490	482	471	468	486
75°	201	202	199	194	189	219
85°	30	30	30	30	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.4	1419.4	1419.4	1419.4	1419.4
2.5°	1419.8	1419.8	1418.9	1417.7	1420.6
5°	1417.7	1418.1	1417.3	1416.1	1418.1
7.5°	1414.8	1415.2	1414.0	1412.8	1414.4
10°	1410.3	1409.9	1408.6	1407.8	1409.9
12.5°	1403.7	1403.3	1402.0	1401.2	1402.9
15°	1395.4	1395.4	1393.4	1392.1	1392.5
17.5°	1385.5	1385.5	1382.6	1379.7	1380.6
20°	1374.0	1373.5	1369.4	1366.5	1366.1
22.5°	1359.5	1359.5	1353.7	1350.0	1348.8
25°	1341.8	1341.4	1334.8	1329.4	1328.6
27.5°	1321.5	1320.7	1312.9	1307.5	1305.4
30°	1296.4	1295.5	1287.3	1281.5	1279.0
32.5°	1266.7	1267.9	1258.4	1251.8	1249.3
35°	1232.8	1232.8	1225.4	1218.4	1214.2
37.5°	1194.0	1194.0	1187.0	1180.0	1175.0
40°	1149.9	1150.3	1142.8	1134.2	1130.0
42.5°	1100.3	1101.1	1091.2	1084.2	1079.7
45°	1046.3	1046.7	1035.9	1028.1	1024.4
47.5°	987.7	986.8	974.9	968.3	964.5
50°	924.9	923.3	910.1	903.9	900.6
52.5°	859.3	856.0	844.4	835.4	832.5
55°	791.2	786.7	772.2	763.1	762.3
57.5°	720.2	714.8	702.9	694.2	690.9
60°	642.6	641.4	631.5	621.2	618.7
62.5°	570.0	566.3	557.6	545.2	544.0
65°	492.4	490.3	482.5	470.9	468.4
67.5°	412.3	414.4	407.8	397.5	394.2
70°	340.1	341.3	333.9	324.4	323.2
72.5°	267.4	269.5	263.3	257.1	255.9
75°	201.0	201.8	198.9	193.6	189.4
77.5°	142.8	145.7	142.4	138.7	135.4
80°	99.5	94.9	95.3	93.7	90.0
82.5°	59.8	57.8	57.4	55.7	54.1
85°	30.1	29.7	30.1	29.7	28.1
87.5°	9.9	10.7	11.1	11.1	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)