

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: P413213

Luminaire Tested: **24PD-50-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-50-PC3-L930
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

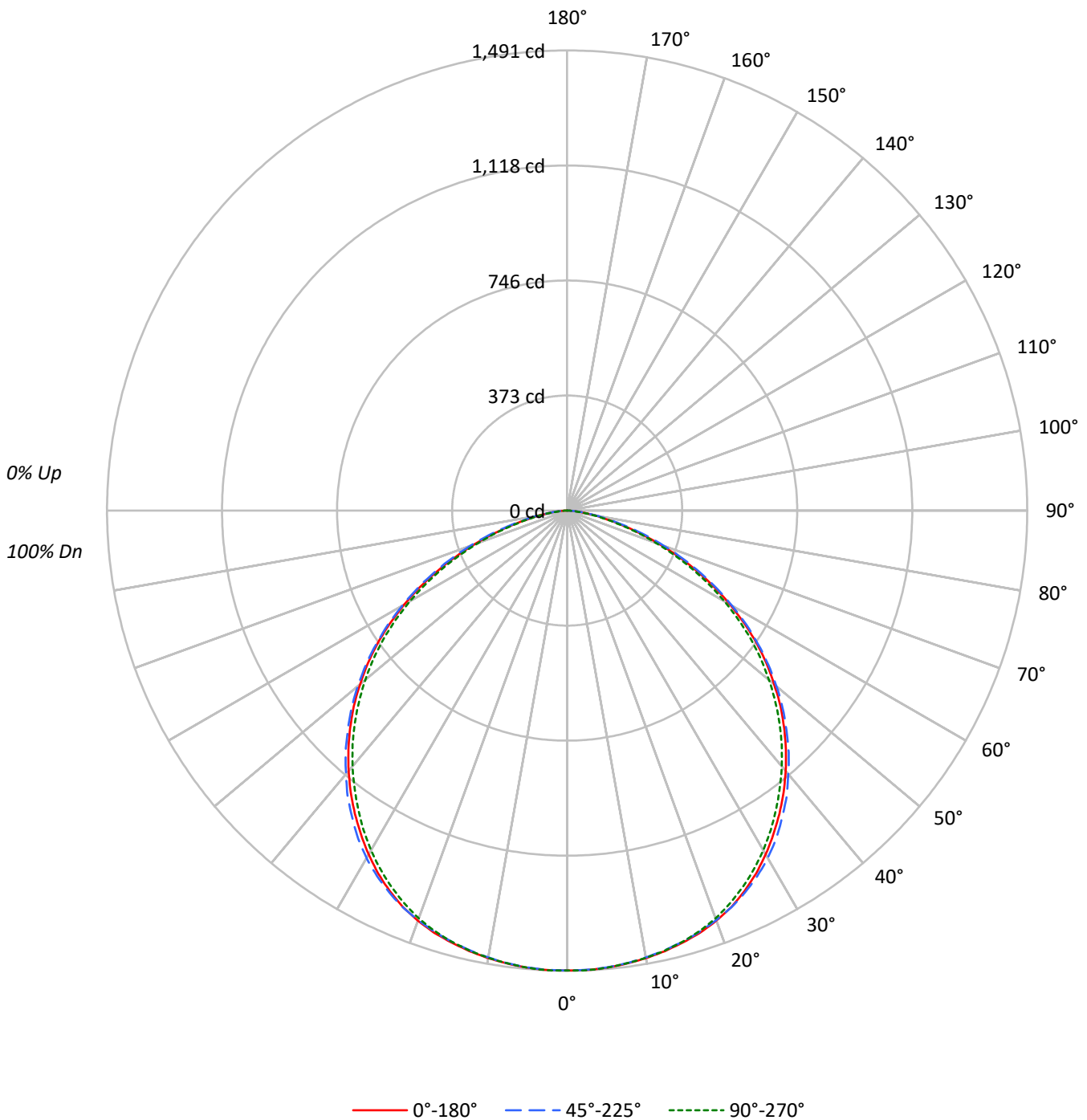
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2005	2005	2005
5°	2008	2006	2008
10°	2012	2009	2010
15°	2018	2014	2015
20°	2025	2022	2013
25°	2019	2026	1998
30°	1999	2020	1974
35°	1970	1995	1940
40°	1935	1958	1900
45°	1891	1912	1852
50°	1833	1853	1788
55°	1757	1773	1705
60°	1641	1660	1584
65°	1479	1515	1421
70°	1255	1310	1205
75°	972	1043	927
80°	723	755	656
85°	446	479	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.5
10°-20°	408.6	10.0
20°-30°	625.8	15.4
30°-40°	752.9	18.5
40°-50°	767.7	18.8
50°-60°	665.5	16.3
60°-70°	461.4	11.3
70°-80°	210.7	5.2
80°-90°	38.9	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°	1175.8	28.9
0°-40°	1928.7	47.4
0°-60°	3361.9	82.5
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1486	1486	1486	1485	1487	141
15°	1449	1448	1446	1445	1446	409
25°	1360	1364	1365	1353	1346	626
35°	1199	1212	1214	1199	1181	750
45°	994	1006	1005	991	973	766
55°	749	754	756	737	727	668
65°	464	474	476	460	446	459
75°	187	197	201	194	178	205
85°	29	30	31	29	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.1	1490.1	1490.1	1490.1	1490.1
2.5°	1490.1	1490.1	1489.3	1488.5	1490.9
5°	1486.4	1486.4	1485.6	1484.7	1486.8
7.5°	1480.6	1480.2	1479.4	1478.6	1479.8
10°	1472.4	1471.9	1470.3	1469.9	1471.5
12.5°	1462.0	1461.6	1459.2	1459.2	1460.4
15°	1448.8	1448.4	1445.9	1444.7	1446.4
17.5°	1434.0	1433.6	1430.7	1427.4	1428.2
20°	1414.2	1414.2	1412.1	1407.1	1405.9
22.5°	1390.2	1391.5	1391.5	1382.0	1378.2
25°	1360.1	1363.8	1365.0	1353.1	1346.1
27.5°	1325.8	1331.6	1334.9	1319.6	1310.6
30°	1286.6	1296.1	1300.2	1283.7	1270.5
32.5°	1243.7	1255.7	1260.6	1244.5	1227.6
35°	1199.1	1211.9	1214.4	1198.7	1180.9
37.5°	1151.6	1164.8	1168.1	1154.1	1132.2
40°	1101.7	1114.9	1114.9	1103.3	1081.9
42.5°	1048.9	1062.9	1062.5	1048.4	1029.0
45°	994.0	1006.3	1004.7	991.1	973.3
47.5°	937.4	945.3	947.3	931.2	914.3
50°	875.5	883.3	885.4	867.2	854.0
52.5°	814.4	819.4	822.2	801.2	791.7
55°	749.2	753.7	755.8	737.2	726.9
57.5°	680.3	686.0	688.5	669.9	658.4
60°	609.7	615.9	616.7	599.3	588.6
62.5°	537.8	546.1	547.8	530.4	517.6
65°	464.4	474.3	475.9	459.8	446.2
67.5°	390.9	404.1	404.5	391.3	375.2
70°	319.1	333.5	333.1	322.0	306.3
72.5°	250.6	263.8	266.7	256.3	241.1
75°	187.0	197.3	200.6	194.0	178.3
77.5°	132.9	142.4	145.3	139.1	127.5
80°	93.3	93.7	97.4	92.5	84.6
82.5°	57.8	57.0	58.2	56.1	51.6
85°	28.9	29.7	31.0	29.3	26.8
87.5°	9.9	10.3	11.1	11.1	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)