

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: P413208

Luminaire Tested: **24PD-50-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413208
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-L830
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

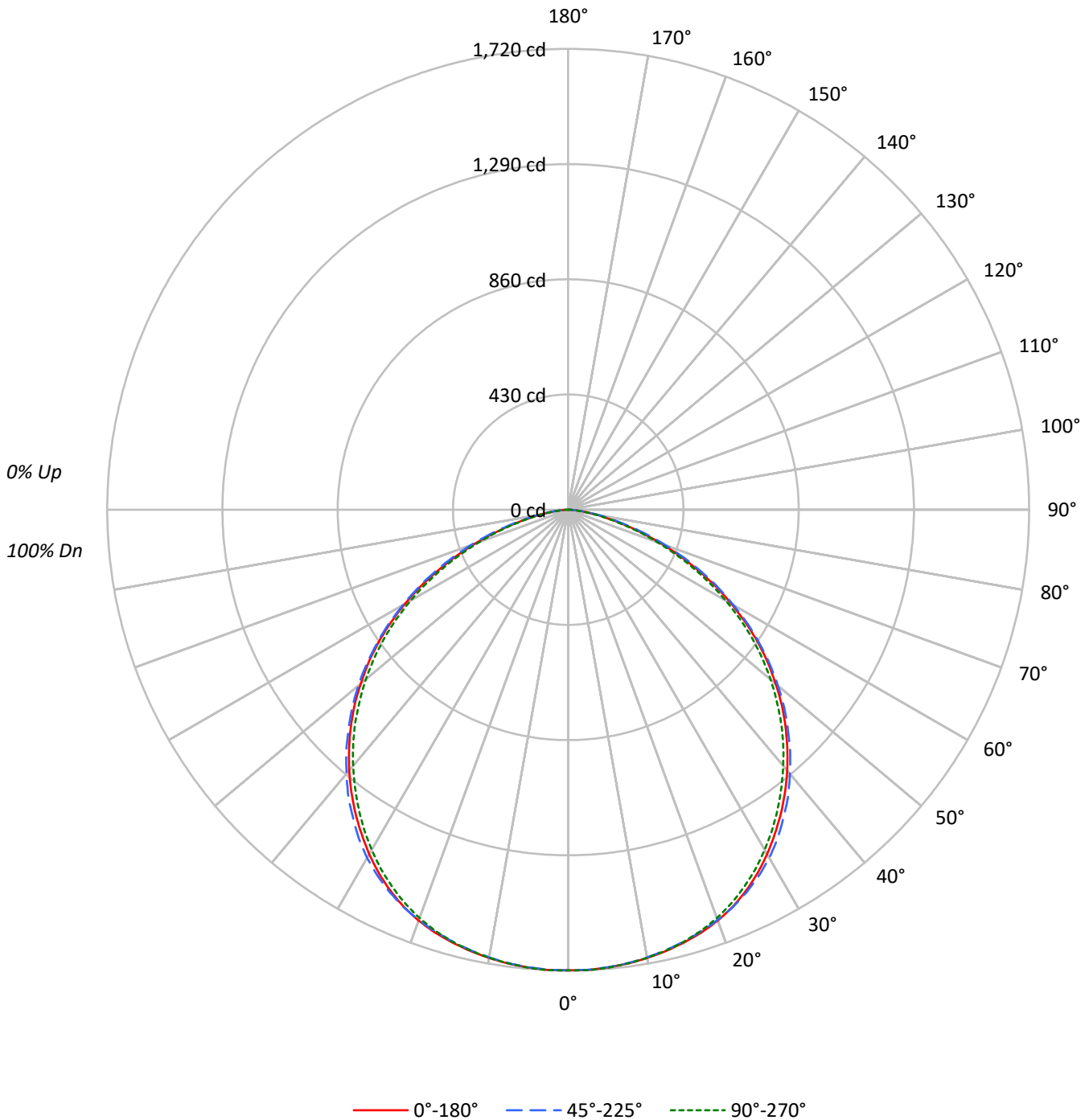
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4700.0 lumens
Efficiency: N/A
Efficacy: 125.3 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°	2314	2314	2314
5°	2317	2315	2317
10°	2321	2318	2320
15°	2329	2324	2325
20°	2337	2333	2323
25°	2330	2339	2306
30°	2307	2331	2278
35°	2273	2302	2238
40°	2233	2260	2193
45°	2183	2206	2137
50°	2115	2139	2063
55°	2028	2046	1968
60°	1893	1915	1828
65°	1706	1748	1639
70°	1448	1512	1390
75°	1122	1203	1070
80°	834	871	756
85°	514	551	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.5
10°-20°	471.6	10.0
20°-30°	722.1	15.4
30°-40°	868.8	18.5
40°-50°	885.9	18.8
50°-60°	768.0	16.3
60°-70°	532.5	11.3
70°-80°	243.2	5.2
80°-90°	44.9	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°	1356.8	28.9
0°-40°	2225.6	47.4
0°-60°	3879.5	82.5
0°-90°	4700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1715	1715	1714	1713	1716	163
15°	1672	1671	1668	1667	1669	472
25°	1570	1574	1575	1561	1553	723
35°	1384	1398	1401	1383	1363	865
45°	1147	1161	1159	1144	1123	884
55°	864	870	872	851	839	770
65°	536	547	549	531	515	530
75°	216	228	232	224	206	236
85°	33	34	36	34	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1719.5	1719.5	1719.5	1719.5	1719.5
2.5°	1719.5	1719.5	1718.5	1717.6	1720.5
5°	1715.2	1715.2	1714.3	1713.3	1715.7
7.5°	1708.5	1708.1	1707.1	1706.2	1707.6
10°	1699.0	1698.5	1696.6	1696.2	1698.1
12.5°	1687.1	1686.6	1683.8	1683.8	1685.2
15°	1671.9	1671.4	1668.5	1667.1	1669.0
17.5°	1654.7	1654.2	1650.9	1647.1	1648.1
20°	1631.9	1631.9	1629.5	1623.8	1622.3
22.5°	1604.2	1605.7	1605.7	1594.7	1590.4
25°	1569.5	1573.7	1575.2	1561.4	1553.3
27.5°	1529.9	1536.6	1540.4	1522.8	1512.3
30°	1484.7	1495.6	1500.4	1481.3	1466.1
32.5°	1435.1	1449.0	1454.7	1436.1	1416.6
35°	1383.7	1398.5	1401.3	1383.2	1362.7
37.5°	1328.9	1344.2	1348.0	1331.8	1306.5
40°	1271.3	1286.5	1286.5	1273.2	1248.4
42.5°	1210.3	1226.5	1226.0	1209.8	1187.5
45°	1147.0	1161.3	1159.4	1143.6	1123.2
47.5°	1081.7	1090.8	1093.1	1074.6	1055.0
50°	1010.3	1019.3	1021.7	1000.7	985.5
52.5°	939.8	945.5	948.8	924.5	913.6
55°	864.5	869.8	872.1	850.7	838.8
57.5°	785.0	791.6	794.5	773.1	759.7
60°	703.5	710.7	711.6	691.6	679.2
62.5°	620.6	630.2	632.1	612.1	597.3
65°	535.9	547.3	549.2	530.6	514.9
67.5°	451.1	466.3	466.8	451.5	433.0
70°	368.2	384.9	384.4	371.5	353.4
72.5°	289.1	304.4	307.7	295.8	278.2
75°	215.8	227.7	231.5	223.9	205.8
77.5°	153.4	164.3	167.7	160.5	147.2
80°	107.6	108.1	112.4	106.7	97.6
82.5°	66.7	65.7	67.2	64.8	59.5
85°	33.3	34.3	35.7	33.8	31.0
87.5°	11.4	11.9	12.9	12.9	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)