

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: CORELITE

Report Number: P412668

Luminaire Tested: **14PD-50-PP3-L830**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412668
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: CORELITE
Catalog Number: 14PD-50-PP3-L830
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

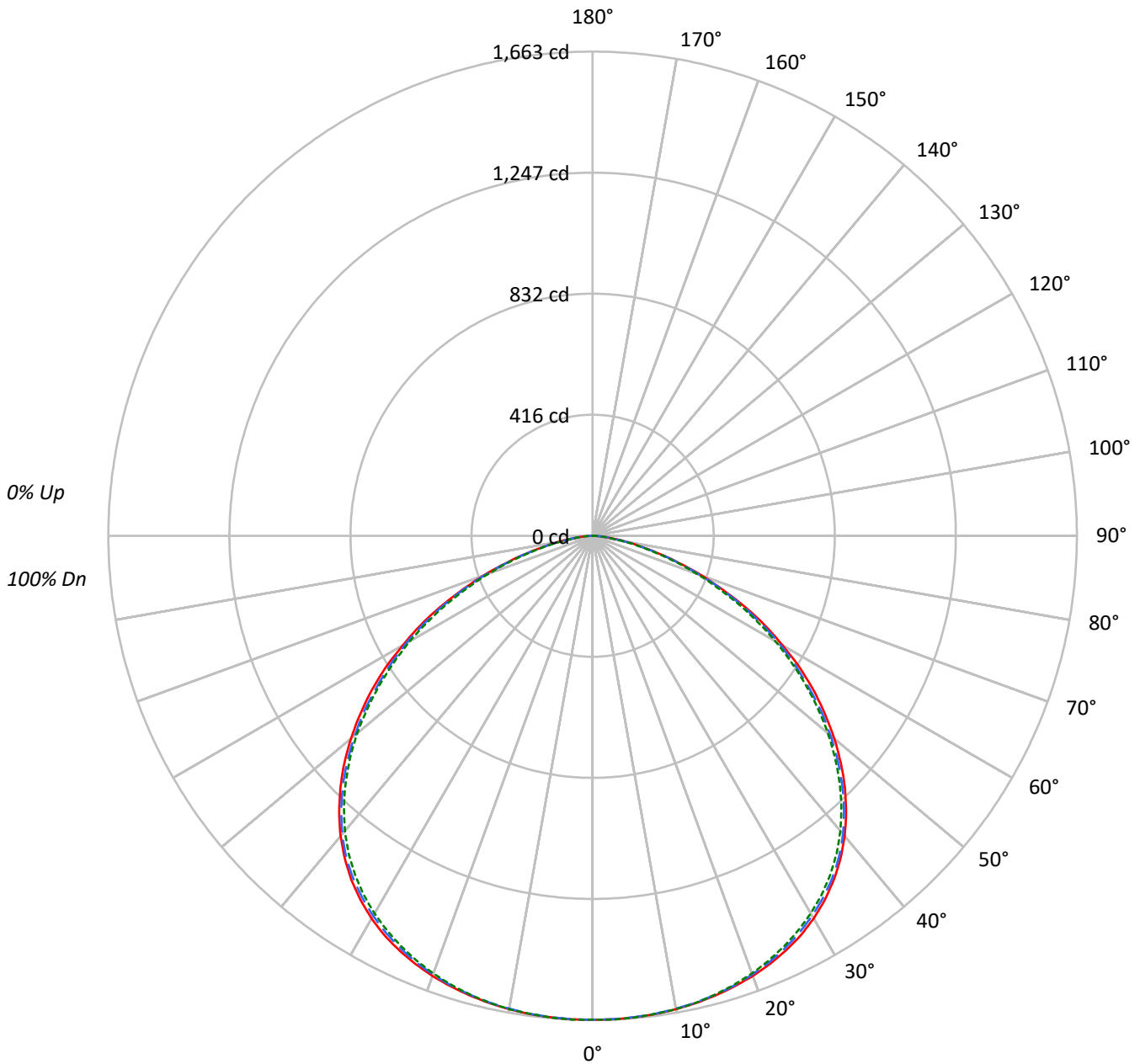
Lumens per Lamp: N/A
Luminaire Lumens: 4836.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P412668

CATALOG NUMBER: 14PD-50-PP3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P412668

CATALOG NUMBER: 14PD-50-PP3-L830

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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°	4472	4472	4472
5°	4484	4483	4485
10°	4512	4507	4511
15°	4552	4545	4543
20°	4607	4592	4581
25°	4665	4641	4619
30°	4717	4684	4654
35°	4742	4714	4671
40°	4730	4701	4648
45°	4662	4616	4565
50°	4534	4461	4415
55°	4346	4242	4188
60°	4050	3979	3899
65°	3671	3598	3493
70°	3133	3076	2977
75°	2447	2421	2306
80°	1805	1729	1633
85°	1090	1090	1016



TEST NUMBER: P412668

CATALOG NUMBER: 14PD-50-PP3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	3.3
10°-20°	461.4	9.5
20°-30°	721.2	14.9
30°-40°	896.3	18.5
40°-50°	933.9	19.3
50°-60°	810.4	16.8
60°-70°	557.2	11.5
70°-80°	251.5	5.2
80°-90°	46.1	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°	1340.7	27.7
0°-40°	2237.0	46.3
0°-60°	3981.3	82.3
0°-90°	4836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1660	1660	1660	1658	1660	158
15°	1634	1634	1632	1630	1631	462
25°	1571	1571	1563	1557	1556	725
35°	1444	1444	1435	1427	1422	902
45°	1225	1226	1213	1204	1200	943
55°	926	921	904	894	893	826
65°	577	574	565	551	548	569
75°	235	236	233	227	222	256
85°	35	35	35	35	33	48
90°	0	0	0	0	0	



TEST NUMBER: P412668

CATALOG NUMBER: 14PD-50-PP3-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1662.5	1662.5	1661.5	1660.1	1663.4
5°	1660.1	1660.5	1659.6	1658.1	1660.5
7.5°	1656.7	1657.2	1655.7	1654.3	1656.2
10°	1651.4	1650.9	1649.4	1648.5	1650.9
12.5°	1643.6	1643.1	1641.7	1640.7	1642.7
15°	1634.0	1634.0	1631.5	1630.1	1630.6
17.5°	1622.4	1622.4	1619.0	1615.6	1616.6
20°	1608.8	1608.3	1603.5	1600.1	1599.6
22.5°	1591.9	1591.9	1585.2	1580.8	1579.4
25°	1571.1	1570.7	1562.9	1556.6	1555.7
27.5°	1547.5	1546.5	1537.3	1531.0	1528.6
30°	1518.0	1517.0	1507.3	1500.6	1497.7
32.5°	1483.2	1484.6	1473.5	1465.8	1462.9
35°	1443.6	1443.6	1434.9	1426.6	1421.8
37.5°	1398.1	1398.1	1389.9	1381.7	1375.9
40°	1346.4	1346.9	1338.2	1328.0	1323.2
42.5°	1288.4	1289.4	1277.8	1269.6	1264.3
45°	1225.1	1225.6	1213.0	1203.8	1199.5
47.5°	1156.5	1155.5	1141.5	1133.8	1129.4
50°	1083.0	1081.1	1065.6	1058.4	1054.5
52.5°	1006.2	1002.3	988.8	978.2	974.8
55°	926.4	921.1	904.2	893.6	892.6
57.5°	843.3	837.0	823.0	812.9	809.0
60°	752.5	751.0	739.4	727.3	724.4
62.5°	667.4	663.1	652.9	638.4	637.0
65°	576.6	574.1	565.0	551.4	548.5
67.5°	482.8	485.2	477.5	465.4	461.5
70°	398.2	399.7	391.0	379.9	378.4
72.5°	313.2	315.6	308.3	301.1	299.6
75°	235.4	236.3	232.9	226.7	221.8
77.5°	167.2	170.6	166.7	162.4	158.5
80°	116.5	111.2	111.6	109.7	105.4
82.5°	70.1	67.7	67.2	65.2	63.3
85°	35.3	34.8	35.3	34.8	32.9
87.5°	11.6	12.6	13.0	13.0	12.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)