

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: P412670

Luminaire Tested: **14PD-50-PP3-L840**

Issue Date: 9/15/2020

**Test Information**

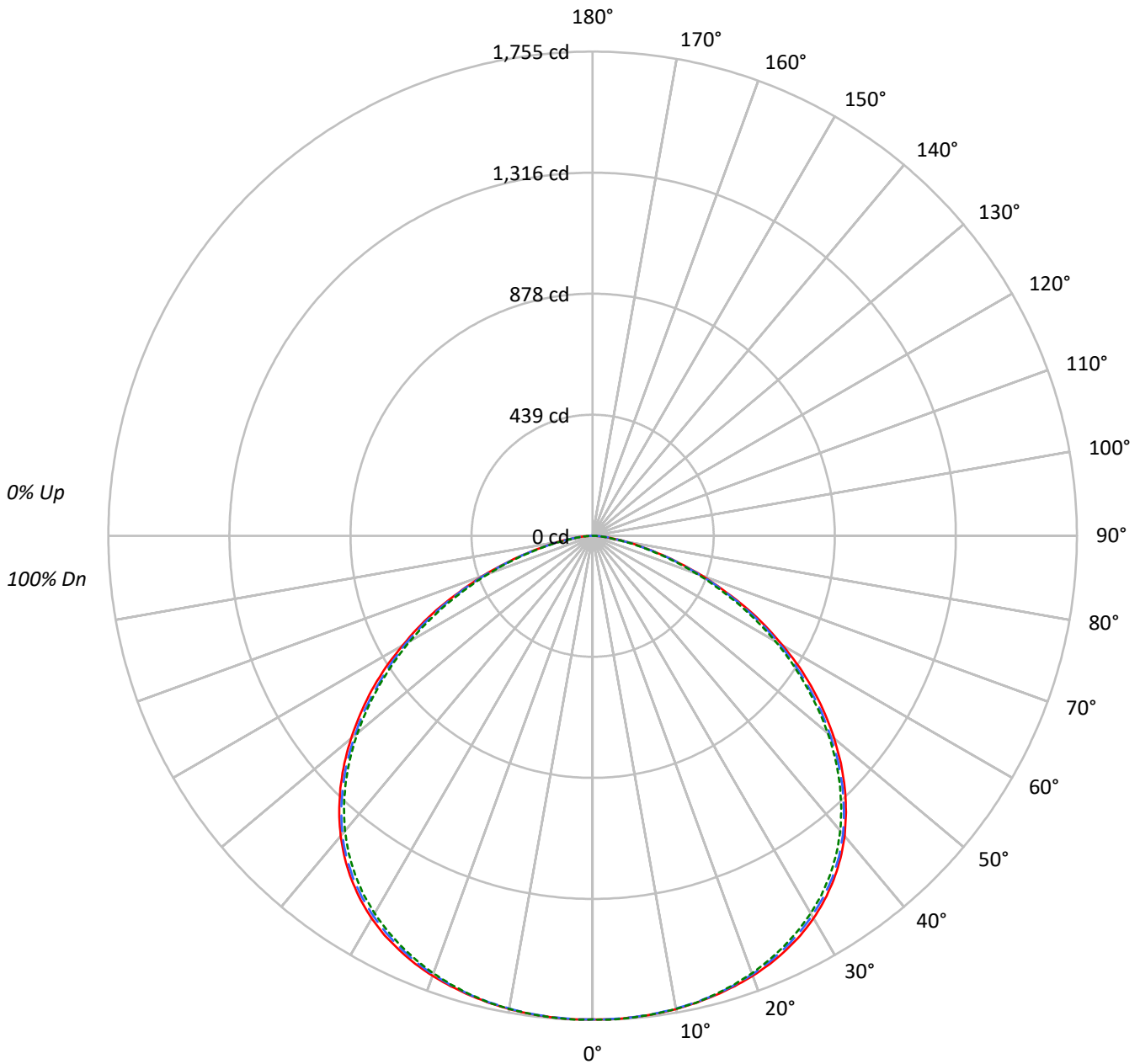
Test Method: LM-79-08  
Report Number: P412670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PP3-L840  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5102.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 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<sub>in</sub>): 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: P412670  
CATALOG NUMBER: 14PD-50-PP3-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P412670

CATALOG NUMBER: 14PD-50-PP3-L840

**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°	4718	4718	4718
5°	4731	4730	4732
10°	4761	4755	4759
15°	4802	4795	4793
20°	4861	4844	4833
25°	4922	4896	4873
30°	4976	4941	4910
35°	5003	4973	4928
40°	4990	4959	4904
45°	4919	4870	4816
50°	4783	4706	4657
55°	4586	4475	4418
60°	4273	4198	4113
65°	3873	3795	3685
70°	3305	3246	3141
75°	2582	2556	2433
80°	1905	1826	1722
85°	1149	1149	1071



TEST NUMBER: P412670

CATALOG NUMBER: 14PD-50-PP3-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	3.3
10°-20°	486.8	9.5
20°-30°	760.9	14.9
30°-40°	945.6	18.5
40°-50°	985.2	19.3
50°-60°	854.9	16.8
60°-70°	587.9	11.5
70°-80°	265.3	5.2
80°-90°	48.6	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°	1414.5	27.7
0°-40°	2360.1	46.3
0°-60°	4200.3	82.3
0°-90°	5102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1751	1752	1751	1749	1752	167
15°	1724	1724	1721	1720	1720	488
25°	1658	1657	1649	1642	1641	765
35°	1523	1523	1514	1505	1500	952
45°	1292	1293	1280	1270	1266	995
55°	977	972	954	943	942	871
65°	608	606	596	582	579	600
75°	248	249	246	239	234	270
85°	37	37	37	37	35	50
90°	0	0	0	0	0	



TEST NUMBER: P412670

CATALOG NUMBER: 14PD-50-PP3-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1753.9	1753.9	1752.9	1751.4	1754.9
5°	1751.4	1751.9	1750.9	1749.3	1751.9
7.5°	1747.8	1748.3	1746.8	1745.3	1747.3
10°	1742.2	1741.7	1740.2	1739.1	1741.7
12.5°	1734.0	1733.5	1732.0	1731.0	1733.0
15°	1723.8	1723.8	1721.3	1719.8	1720.3
17.5°	1711.6	1711.6	1708.0	1704.5	1705.5
20°	1697.3	1696.8	1691.7	1688.1	1687.6
22.5°	1679.5	1679.5	1672.3	1667.8	1666.2
25°	1657.6	1657.0	1648.9	1642.3	1641.2
27.5°	1632.6	1631.6	1621.9	1615.2	1612.7
30°	1601.5	1600.5	1590.3	1583.1	1580.1
32.5°	1564.8	1566.3	1554.6	1546.4	1543.3
35°	1523.0	1523.0	1513.8	1505.1	1500.0
37.5°	1475.0	1475.0	1466.4	1457.7	1451.6
40°	1420.5	1421.0	1411.8	1401.1	1396.0
42.5°	1359.3	1360.3	1348.1	1339.4	1333.8
45°	1292.5	1293.0	1279.7	1270.1	1265.5
47.5°	1220.1	1219.1	1204.3	1196.1	1191.5
50°	1142.6	1140.6	1124.2	1116.6	1112.5
52.5°	1061.5	1057.4	1043.2	1032.0	1028.4
55°	977.4	971.8	953.9	942.7	941.7
57.5°	889.7	883.1	868.3	857.6	853.5
60°	793.9	792.3	780.1	767.3	764.3
62.5°	704.1	699.5	688.8	673.5	672.0
65°	608.3	605.7	596.0	581.8	578.7
67.5°	509.4	511.9	503.7	491.0	486.9
70°	420.1	421.7	412.5	400.8	399.2
72.5°	330.4	332.9	325.3	317.6	316.1
75°	248.3	249.3	245.8	239.1	234.0
77.5°	176.4	180.0	175.9	171.3	167.2
80°	122.9	117.3	117.8	115.7	111.1
82.5°	73.9	71.4	70.9	68.8	66.8
85°	37.2	36.7	37.2	36.7	34.7
87.5°	12.2	13.3	13.8	13.8	12.7
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)