

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: P412671

Luminaire Tested: **14PD-50-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412671  
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-L850  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

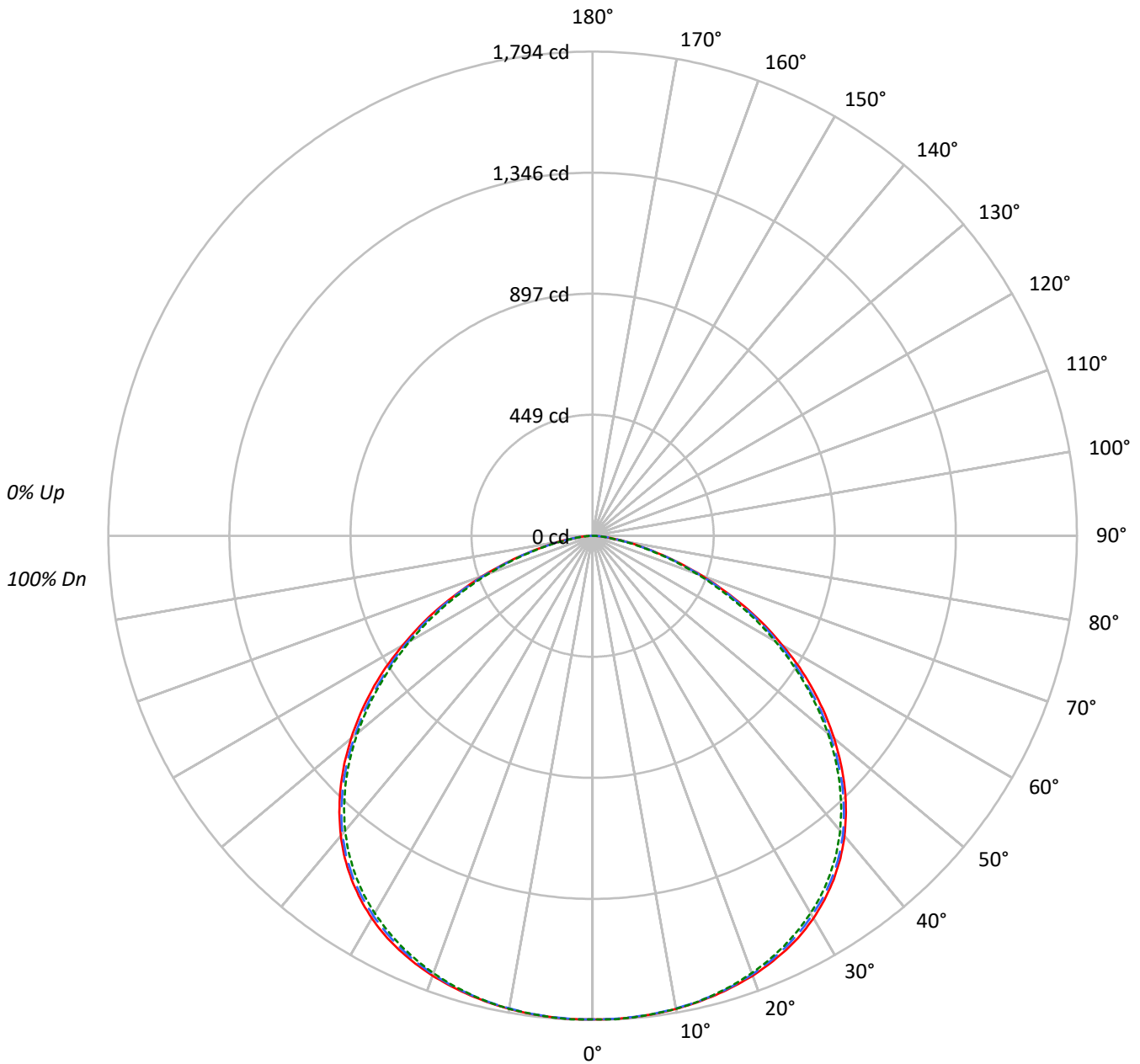
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5214.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

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### Luminous Intensity Polar Plot



0% Up  
100% Dn



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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	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°	4822	4822	4822
5°	4835	4833	4836
10°	4865	4859	4864
15°	4908	4901	4898
20°	4967	4951	4939
25°	5029	5003	4980
30°	5085	5050	5017
35°	5113	5082	5036
40°	5100	5068	5011
45°	5027	4977	4922
50°	4888	4810	4760
55°	4686	4574	4515
60°	4366	4290	4204
65°	3958	3878	3766
70°	3378	3316	3210
75°	2639	2611	2487
80°	1946	1866	1760
85°	1173	1173	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	3.3
10°-20°	497.5	9.5
20°-30°	777.6	14.9
30°-40°	966.4	18.5
40°-50°	1006.9	19.3
50°-60°	873.7	16.8
60°-70°	600.8	11.5
70°-80°	271.1	5.2
80°-90°	49.7	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°	1445.5	27.7
0°-40°	2411.9	46.3
0°-60°	4292.5	82.3
0°-90°	5214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5214.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1790	1790	1789	1788	1790	171
15°	1762	1762	1759	1758	1758	498
25°	1694	1693	1685	1678	1677	781
35°	1556	1556	1547	1538	1533	973
45°	1321	1321	1308	1298	1293	1017
55°	999	993	975	963	962	890
65°	622	619	609	594	591	613
75°	254	255	251	244	239	276
85°	38	38	38	38	35	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1792.4	1792.4	1791.4	1789.8	1793.5
5°	1789.8	1790.3	1789.3	1787.7	1790.3
7.5°	1786.2	1786.7	1785.1	1783.6	1785.6
10°	1780.4	1779.9	1778.4	1777.3	1779.9
12.5°	1772.1	1771.6	1770.0	1769.0	1771.1
15°	1761.7	1761.7	1759.1	1757.5	1758.0
17.5°	1749.2	1749.2	1745.5	1741.9	1742.9
20°	1734.6	1734.1	1728.9	1725.2	1724.7
22.5°	1716.3	1716.3	1709.1	1704.4	1702.8
25°	1693.9	1693.4	1685.1	1678.3	1677.3
27.5°	1668.4	1667.4	1657.5	1650.7	1648.1
30°	1636.6	1635.6	1625.2	1617.9	1614.7
32.5°	1599.1	1600.7	1588.7	1580.4	1577.2
35°	1556.4	1556.4	1547.0	1538.1	1532.9
37.5°	1507.4	1507.4	1498.5	1489.7	1483.4
40°	1451.7	1452.2	1442.8	1431.9	1426.6
42.5°	1389.1	1390.2	1377.7	1368.8	1363.1
45°	1320.9	1321.4	1307.8	1297.9	1293.3
47.5°	1246.9	1245.8	1230.7	1222.4	1217.7
50°	1167.7	1165.6	1148.9	1141.1	1136.9
52.5°	1084.8	1080.7	1066.1	1054.6	1051.0
55°	998.9	993.1	974.9	963.4	962.4
57.5°	909.2	902.5	887.4	876.4	872.2
60°	811.3	809.7	797.2	784.2	781.1
62.5°	719.6	714.9	703.9	688.3	686.7
65°	621.6	619.0	609.1	594.5	591.4
67.5°	520.5	523.1	514.8	501.8	497.6
70°	429.3	430.9	421.5	409.5	408.0
72.5°	337.6	340.2	332.4	324.6	323.1
75°	253.8	254.8	251.1	244.4	239.2
77.5°	180.3	183.9	179.8	175.1	170.9
80°	125.6	119.8	120.4	118.3	113.6
82.5°	75.6	72.9	72.4	70.3	68.3
85°	38.0	37.5	38.0	37.5	35.4
87.5°	12.5	13.5	14.1	14.1	13.0
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)