

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: P412329

Luminaire Tested: **14PD-50-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PB1-L850  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

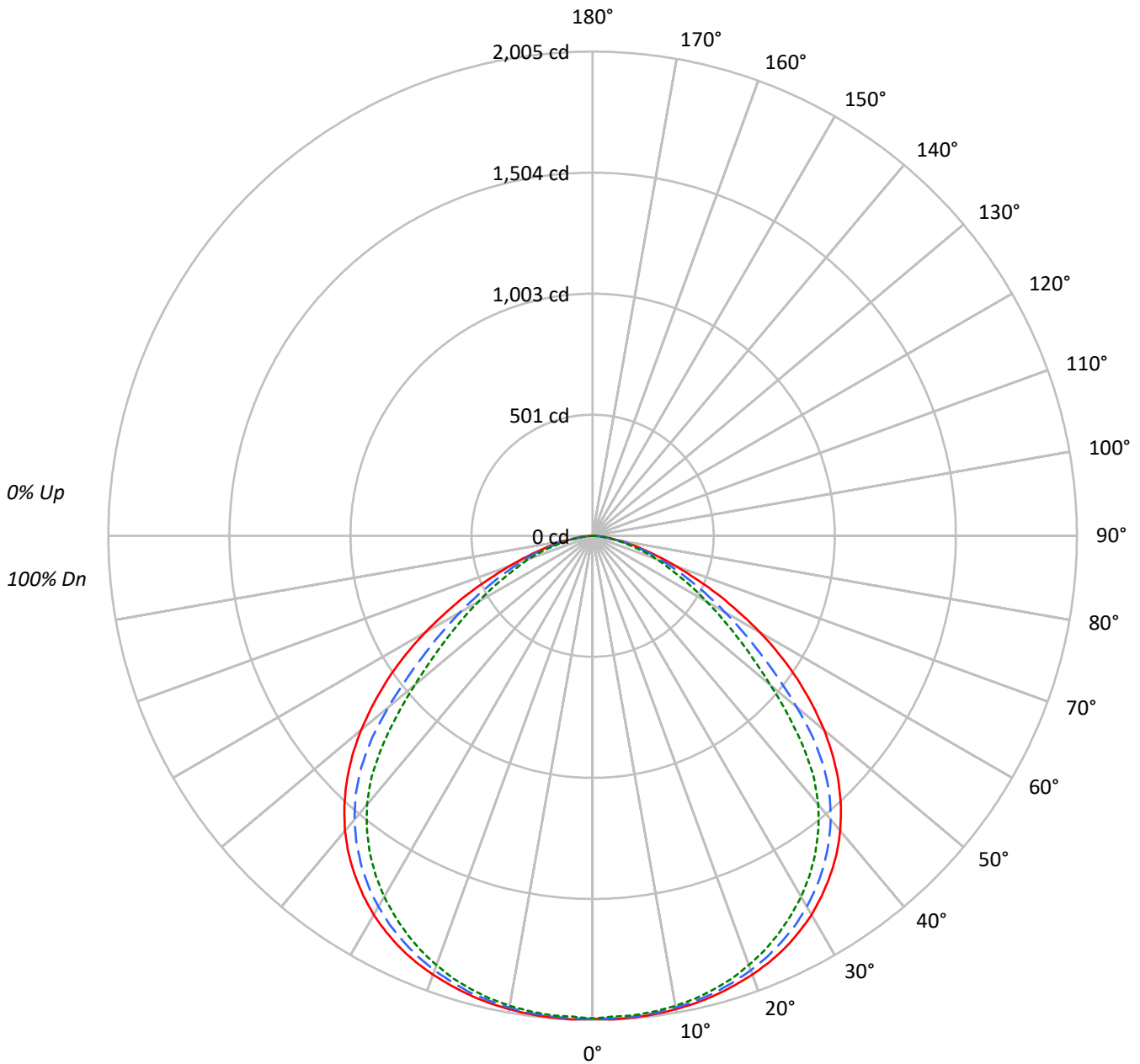
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5154.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38  
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





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**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	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63																			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5380	5380	5380
5°	5408	5396	5383
10°	5440	5422	5400
15°	5485	5456	5416
20°	5537	5483	5417
25°	5594	5505	5401
30°	5631	5511	5363
35°	5636	5481	5279
40°	5603	5387	5104
45°	5480	5152	4687
50°	5238	4615	4017
55°	4851	3956	3430
60°	4308	3397	2932
65°	3615	2897	2510
70°	2866	2463	2214
75°	2241	2010	1760
80°	1671	1497	1351
85°	1108	976	898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	3.7
10°-20°	552.5	10.7
20°-30°	853.2	16.6
30°-40°	1038.4	20.1
40°-50°	1027.6	19.9
50°-60°	774.2	15.0
60°-70°	465.2	9.0
70°-80°	209.7	4.1
80°-90°	42.9	0.8
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°	1595.9	31.0
0°-40°	2634.3	51.1
0°-60°	4436.1	86.1
0°-90°	5154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2002	1994	1998	1996	1993	191
15°	1969	1959	1958	1951	1944	557
25°	1884	1870	1854	1829	1819	868
35°	1716	1697	1668	1627	1607	1072
45°	1440	1415	1354	1271	1232	1107
55°	1034	961	843	761	731	921
65°	568	515	455	407	394	564
75°	216	204	193	175	169	235
85°	36	37	32	30	29	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1999.4	1999.4	1999.4	1999.4	1999.4
2.5°	2004.6	1996.0	2000.3	1999.4	1992.6
5°	2002.0	1994.3	1997.7	1996.0	1992.6
7.5°	1997.7	1990.0	1992.6	1990.0	1986.6
10°	1990.9	1982.3	1984.1	1978.9	1976.4
12.5°	1981.5	1971.2	1972.9	1966.1	1962.7
15°	1968.7	1959.3	1958.4	1950.7	1943.9
17.5°	1952.4	1943.0	1937.9	1929.3	1921.6
20°	1933.6	1921.6	1914.8	1899.4	1891.7
22.5°	1911.4	1898.5	1887.4	1866.0	1858.3
25°	1884.0	1869.5	1854.1	1829.3	1819.0
27.5°	1850.6	1835.2	1817.3	1789.9	1774.5
30°	1812.2	1795.9	1773.7	1742.0	1725.8
32.5°	1766.8	1748.9	1724.9	1687.3	1670.2
35°	1715.5	1696.7	1668.5	1627.4	1606.9
37.5°	1659.9	1638.6	1605.2	1555.6	1535.1
40°	1594.9	1573.6	1533.4	1476.1	1453.0
42.5°	1521.4	1500.0	1451.3	1382.9	1354.6
45°	1440.1	1415.3	1353.8	1270.8	1231.5
47.5°	1349.5	1317.9	1237.5	1135.7	1096.4
50°	1251.2	1209.2	1102.3	998.0	959.5
52.5°	1144.3	1091.2	968.1	874.9	838.1
55°	1033.9	961.2	843.2	761.1	731.2
57.5°	919.3	832.1	733.8	661.9	633.7
60°	800.5	715.8	631.1	565.3	544.8
62.5°	679.0	609.8	539.6	478.9	467.8
65°	567.8	514.8	455.0	407.1	394.2
67.5°	455.8	425.9	379.7	347.2	332.7
70°	364.3	344.6	313.0	286.5	281.4
72.5°	284.8	272.0	260.0	236.9	227.5
75°	215.5	204.4	193.3	175.3	169.3
77.5°	155.6	151.4	142.0	130.0	127.4
80°	107.8	107.8	96.6	89.8	87.2
82.5°	66.7	72.7	60.7	56.4	53.9
85°	35.9	36.8	31.6	29.9	29.1
87.5°	13.7	15.4	14.5	12.0	12.0
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)