

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: P412669

Luminaire Tested: **14PD-50-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412669  
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-L835  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

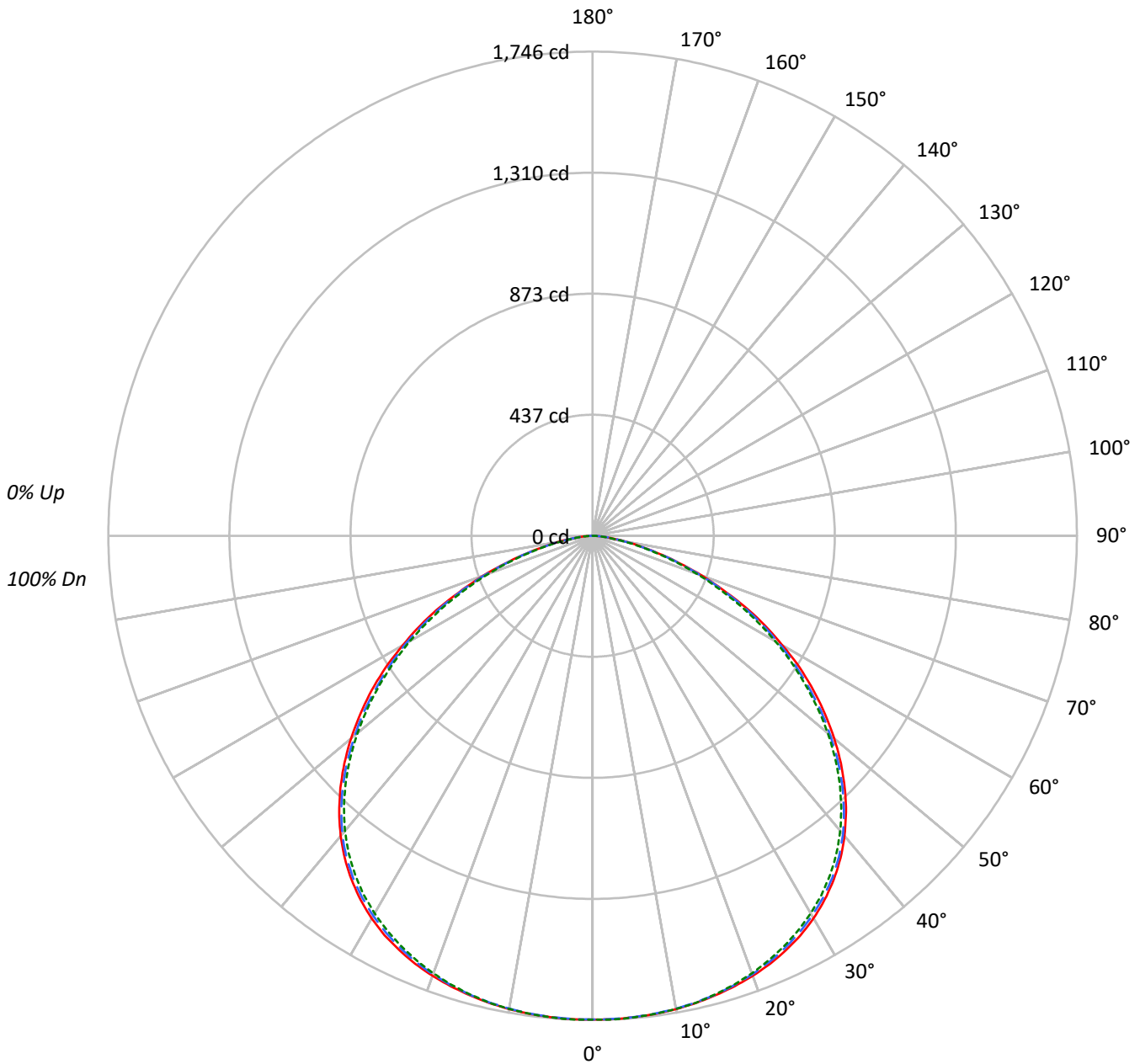
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5076.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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





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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°	4694	4694	4694
5°	4707	4705	4708
10°	4736	4731	4735
15°	4778	4771	4768
20°	4836	4820	4808
25°	4896	4871	4848
30°	4951	4916	4885
35°	4978	4948	4903
40°	4964	4934	4879
45°	4894	4845	4791
50°	4759	4683	4634
55°	4562	4453	4396
60°	4251	4177	4092
65°	3854	3776	3666
70°	3289	3229	3125
75°	2568	2542	2420
80°	1895	1816	1714
85°	1142	1142	1065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.0	3.3
10°-20°	484.3	9.5
20°-30°	757.0	14.9
30°-40°	940.8	18.5
40°-50°	980.2	19.3
50°-60°	850.6	16.8
60°-70°	584.9	11.5
70°-80°	263.9	5.2
80°-90°	48.4	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°	1407.3	27.7
0°-40°	2348.0	46.3
0°-60°	4178.8	82.3
0°-90°	5076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1742	1743	1742	1740	1743	166
15°	1715	1715	1712	1711	1712	485
25°	1649	1649	1640	1634	1633	761
35°	1515	1515	1506	1497	1492	947
45°	1286	1286	1273	1264	1259	990
55°	972	967	949	938	937	867
65°	605	603	593	579	576	597
75°	247	248	244	238	233	269
85°	37	36	37	36	34	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1745.0	1745.0	1744.0	1742.4	1746.0
5°	1742.4	1743.0	1741.9	1740.4	1743.0
7.5°	1738.9	1739.4	1737.9	1736.4	1738.4
10°	1733.3	1732.8	1731.3	1730.3	1732.8
12.5°	1725.2	1724.7	1723.2	1722.2	1724.2
15°	1715.1	1715.1	1712.5	1711.0	1711.5
17.5°	1702.9	1702.9	1699.3	1695.8	1696.8
20°	1688.7	1688.2	1683.1	1679.5	1679.0
22.5°	1670.9	1670.9	1663.8	1659.3	1657.7
25°	1649.1	1648.6	1640.5	1633.9	1632.9
27.5°	1624.3	1623.2	1613.6	1607.0	1604.5
30°	1593.3	1592.3	1582.1	1575.0	1572.0
32.5°	1556.8	1558.3	1546.6	1538.5	1535.5
35°	1515.2	1515.2	1506.1	1497.4	1492.4
37.5°	1467.5	1467.5	1458.9	1450.3	1444.2
40°	1413.2	1413.7	1404.6	1394.0	1388.9
42.5°	1352.4	1353.4	1341.2	1332.6	1327.0
45°	1285.9	1286.4	1273.2	1263.6	1259.0
47.5°	1213.9	1212.9	1198.2	1190.0	1185.5
50°	1136.8	1134.7	1118.5	1110.9	1106.8
52.5°	1056.1	1052.1	1037.9	1026.7	1023.1
55°	972.4	966.8	949.1	937.9	936.9
57.5°	885.2	878.6	863.9	853.2	849.2
60°	789.8	788.3	776.1	763.4	760.4
62.5°	700.5	696.0	685.3	670.1	668.6
65°	605.2	602.6	593.0	578.8	575.7
67.5°	506.8	509.3	501.2	488.5	484.4
70°	418.0	419.5	410.4	398.7	397.2
72.5°	328.7	331.2	323.6	316.0	314.5
75°	247.0	248.1	244.5	237.9	232.8
77.5°	175.5	179.1	175.0	170.4	166.4
80°	122.3	116.7	117.2	115.1	110.6
82.5°	73.6	71.0	70.5	68.5	66.5
85°	37.0	36.5	37.0	36.5	34.5
87.5°	12.2	13.2	13.7	13.7	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)