

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: P505990

Luminaire Tested: **14PD-50-PW1-L835**

Issue Date: 3/26/2021



**Test Information**

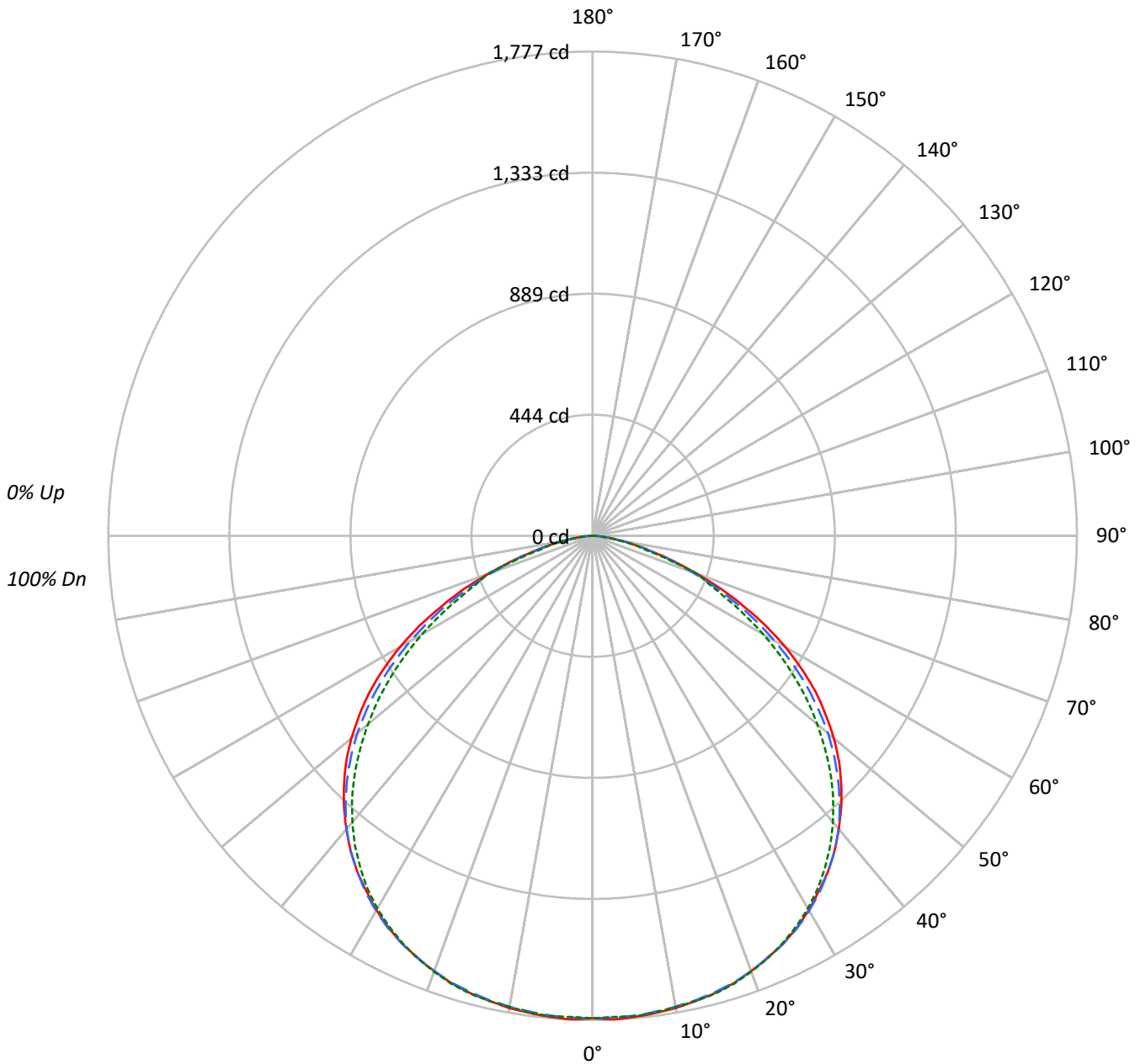
Test Method: LM-79-08  
Report Number: P505990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PW1-L835  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3500K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5042.9 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42  
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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	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°	4765	4765	4765
5°	4789	4775	4780
10°	4808	4795	4797
15°	4841	4830	4847
20°	4870	4867	4876
25°	4907	4907	4898
30°	4930	4939	4908
35°	4946	4946	4883
40°	4937	4933	4817
45°	4910	4853	4697
50°	4836	4719	4505
55°	4687	4489	4245
60°	4391	4148	3890
65°	3888	3665	3422
70°	3174	3032	3198
75°	2393	2352	2113
80°	1722	1613	1613
85°	1081	1019	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	3.3
10°-20°	490.2	9.7
20°-30°	760.9	15.1
30°-40°	937.2	18.6
40°-50°	975.7	19.3
50°-60°	848.5	16.8
60°-70°	570.1	11.3
70°-80°	246.7	4.9
80°-90°	45.3	0.9
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°	1419.4	28.1
0°-40°	2356.6	46.7
0°-60°	4180.8	82.9
0°-90°	5042.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1773	1762	1768	1772	1770	169
15°	1738	1726	1734	1740	1740	491
25°	1653	1645	1653	1653	1650	762
35°	1506	1502	1506	1492	1486	941
45°	1290	1286	1275	1246	1234	994
55°	999	981	957	919	905	888
65°	611	600	576	548	538	605
75°	230	232	226	231	203	254
85°	35	36	33	29	29	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	1776.7	1765.7	1769.7	1775.7	1767.7
5°	1772.7	1761.7	1767.7	1771.7	1769.7
7.5°	1766.7	1758.7	1761.7	1765.7	1764.7
10°	1759.7	1751.7	1754.7	1758.7	1755.7
12.5°	1748.7	1739.7	1745.7	1749.7	1748.7
15°	1737.7	1725.7	1733.7	1739.7	1739.7
17.5°	1721.7	1711.7	1719.7	1724.7	1723.7
20°	1700.6	1693.6	1699.6	1703.6	1702.6
22.5°	1676.6	1671.6	1678.6	1678.6	1678.6
25°	1652.6	1644.6	1652.6	1652.6	1649.6
27.5°	1621.6	1614.6	1624.6	1621.6	1616.6
30°	1586.5	1582.5	1589.5	1584.5	1579.5
32.5°	1545.5	1543.5	1550.5	1540.5	1536.5
35°	1505.5	1501.5	1505.5	1492.4	1486.4
37.5°	1458.4	1454.4	1458.4	1441.4	1432.4
40°	1405.4	1402.4	1404.4	1382.3	1371.3
42.5°	1350.3	1347.3	1342.3	1315.3	1306.3
45°	1290.2	1286.2	1275.2	1246.2	1234.2
47.5°	1226.2	1219.2	1203.2	1172.1	1156.1
50°	1155.1	1145.1	1127.1	1093.1	1076.0
52.5°	1078.0	1066.0	1043.0	1009.0	993.0
55°	999.0	980.9	956.9	918.9	904.9
57.5°	908.9	889.9	864.8	829.8	813.8
60°	815.8	796.8	770.7	738.7	722.7
62.5°	716.7	699.7	673.7	643.6	629.6
65°	610.6	599.6	575.6	548.5	537.5
67.5°	510.5	499.5	479.5	456.4	460.4
70°	403.4	402.4	385.4	369.4	406.4
72.5°	314.3	312.3	303.3	295.3	293.3
75°	230.2	232.2	226.2	231.2	203.2
77.5°	162.2	164.2	163.2	149.1	156.2
80°	111.1	111.1	104.1	99.1	104.1
82.5°	67.1	80.1	72.1	59.1	57.1
85°	35.0	36.0	33.0	29.0	29.0
87.5°	13.0	15.0	13.0	12.0	11.0
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)