

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: P505973

Luminaire Tested: **14PD-50-PL1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PL1-L840
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

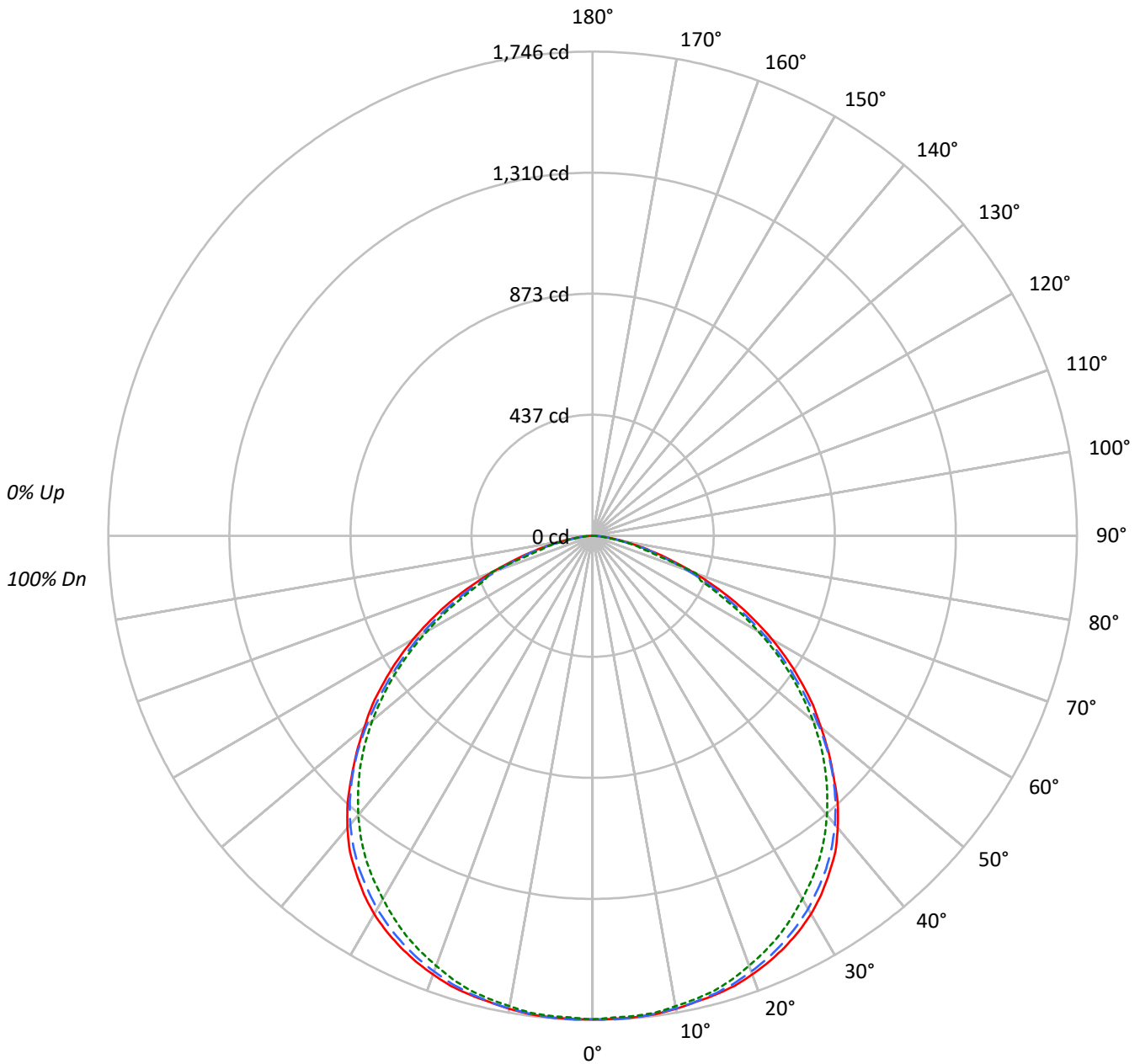
Lumens per Lamp: N/A
Luminaire Lumens: 4847.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
Input Voltage (V): NR
Input Current (A_{in}): 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	110	105	101	98	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	78	84	79	76	81	77	74	72								
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61								
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52								
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45								
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40								
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35								
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31								
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28								
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4693	4693	4693
5°	4708	4711	4695
10°	4734	4729	4708
15°	4773	4760	4730
20°	4821	4788	4725
25°	4863	4814	4723
30°	4895	4827	4699
35°	4883	4820	4681
40°	4831	4774	4616
45°	4676	4662	4512
50°	4498	4459	4338
55°	4305	4179	4084
60°	4020	3840	3711
65°	3622	3396	3214
70°	3029	2841	3120
75°	2389	2300	1991
80°	1722	1528	1559
85°	1093	917	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.4
10°-20°	482.0	9.9
20°-30°	745.2	15.4
30°-40°	912.0	18.8
40°-50°	935.0	19.3
50°-60°	796.3	16.4
60°-70°	532.2	11.0
70°-80°	235.8	4.9
80°-90°	42.7	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°	1393.0	28.7
0°-40°	2305.0	47.6
0°-60°	4036.4	83.3
0°-90°	4847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1743	1739	1744	1743	1738	166
15°	1713	1708	1708	1704	1698	484
25°	1638	1632	1621	1600	1591	755
35°	1486	1482	1467	1435	1425	929
45°	1229	1233	1225	1197	1186	948
55°	918	913	891	872	870	819
65°	569	564	533	510	505	561
75°	230	233	221	222	192	249
85°	35	34	30	29	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.0	1744.0	1744.0	1744.0	1744.0
2.5°	1744.0	1741.1	1745.9	1747.8	1739.2
5°	1743.0	1739.2	1744.0	1743.0	1738.2
7.5°	1740.1	1733.4	1738.2	1736.3	1734.4
10°	1732.5	1726.7	1730.6	1727.7	1722.9
12.5°	1721.9	1718.1	1721.0	1718.1	1711.4
15°	1713.3	1707.6	1708.5	1703.7	1698.0
17.5°	1701.8	1693.2	1693.2	1683.6	1676.9
20°	1683.6	1676.0	1672.1	1658.7	1650.1
22.5°	1662.6	1656.8	1649.2	1631.9	1622.3
25°	1637.7	1631.9	1621.4	1600.3	1590.7
27.5°	1608.9	1601.3	1589.8	1564.9	1553.4
30°	1575.4	1565.8	1553.4	1525.6	1512.2
32.5°	1534.2	1527.5	1511.2	1482.5	1470.1
35°	1486.3	1482.5	1467.2	1434.6	1425.0
37.5°	1437.5	1429.8	1416.4	1382.0	1372.4
40°	1375.2	1370.5	1359.0	1325.4	1314.0
42.5°	1308.2	1305.3	1295.8	1264.2	1251.7
45°	1228.7	1232.6	1224.9	1197.1	1185.6
47.5°	1153.1	1151.1	1148.3	1123.4	1113.8
50°	1074.5	1070.7	1065.0	1044.8	1036.2
52.5°	1000.8	993.1	977.8	960.6	954.8
55°	917.5	912.7	890.7	872.5	870.5
57.5°	833.2	830.3	803.5	782.4	782.4
60°	747.0	743.2	713.5	691.5	689.5
62.5°	657.0	654.1	623.5	598.6	599.5
65°	568.9	564.1	533.4	509.5	504.7
67.5°	476.9	475.0	445.3	423.3	421.4
70°	385.0	385.0	361.1	341.9	396.5
72.5°	303.6	300.7	281.6	272.9	260.5
75°	229.8	232.7	221.2	222.2	191.5
77.5°	163.8	159.0	154.2	143.7	152.3
80°	111.1	108.2	98.6	95.8	100.6
82.5°	69.0	69.9	61.3	55.5	54.6
85°	35.4	34.5	29.7	28.7	27.8
87.5°	13.4	14.4	12.5	11.5	10.5
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)