

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: P505980

Luminaire Tested: **14PD-50-PR1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PR1-L830
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI, 3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

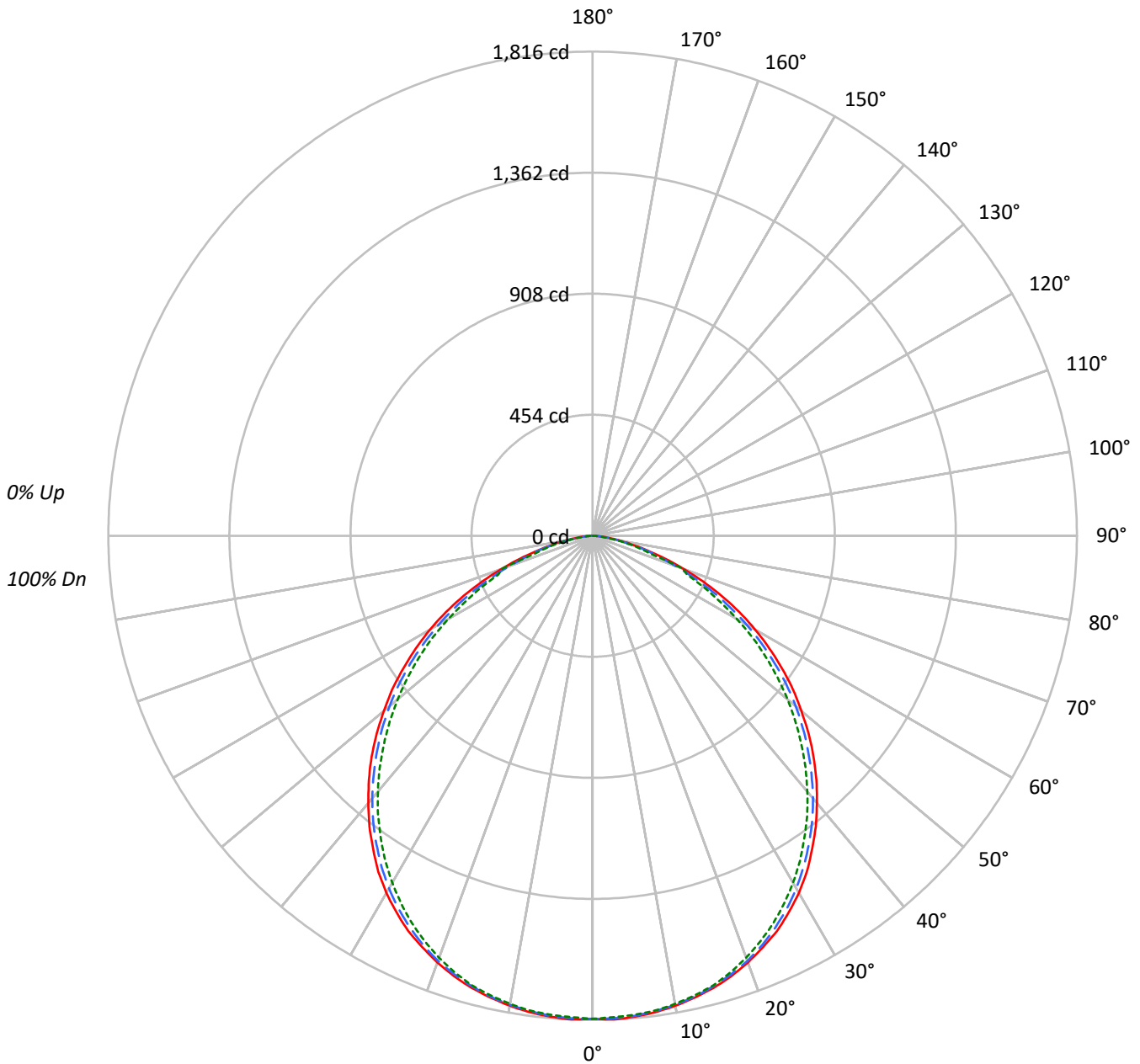
Lumens per Lamp: N/A
Luminaire Lumens: 4662.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	99	96	93	95	93	90	91	90	88	86								
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73								
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62								
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53								
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46								
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41								
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36								
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32								
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29								
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4875	4875	4875
5°	4891	4884	4872
10°	4891	4881	4871
15°	4889	4874	4864
20°	4877	4859	4823
25°	4857	4814	4761
30°	4806	4745	4670
35°	4713	4642	4548
40°	4595	4516	4400
45°	4459	4350	4214
50°	4275	4162	3993
55°	4066	3906	3721
60°	3786	3588	3366
65°	3400	3160	2954
70°	2859	2605	2817
75°	2201	2118	1903
80°	1585	1418	1348
85°	969	831	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.7
10°-20°	493.3	10.6
20°-30°	745.1	16.0
30°-40°	881.6	18.9
40°-50°	879.0	18.9
50°-60°	742.6	15.9
60°-70°	494.8	10.6
70°-80°	214.9	4.6
80°-90°	39.0	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°	1410.2	30.2
0°-40°	2291.7	49.2
0°-60°	3913.3	83.9
0°-90°	4662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1811	1804	1808	1806	1804	172
15°	1755	1747	1750	1747	1746	495
25°	1636	1625	1621	1607	1603	753
35°	1435	1425	1413	1394	1384	897
45°	1172	1161	1143	1119	1107	902
55°	867	860	833	806	793	774
65°	534	528	496	475	464	528
75°	212	207	204	196	183	231
85°	31	32	27	25	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1811.5	1811.5	1811.5	1811.5	1811.5
2.5°	1816.0	1807.9	1811.5	1811.5	1807.0
5°	1810.6	1803.5	1807.9	1806.1	1803.5
7.5°	1802.6	1795.4	1798.1	1797.2	1796.3
10°	1790.0	1782.8	1786.4	1784.6	1782.8
12.5°	1773.8	1766.7	1770.3	1767.6	1765.8
15°	1755.0	1746.9	1749.6	1746.9	1746.0
17.5°	1731.7	1723.6	1724.5	1720.9	1717.3
20°	1703.0	1695.8	1696.7	1687.7	1684.1
22.5°	1669.8	1662.6	1661.7	1650.0	1645.5
25°	1635.7	1624.9	1621.3	1607.0	1603.4
27.5°	1592.6	1582.7	1577.3	1562.1	1554.9
30°	1546.8	1536.1	1527.1	1510.1	1502.9
32.5°	1494.8	1484.0	1472.4	1454.4	1446.4
35°	1434.7	1424.8	1413.2	1394.3	1384.4
37.5°	1374.6	1363.8	1352.1	1329.7	1321.6
40°	1308.2	1298.3	1285.7	1261.5	1252.5
42.5°	1241.8	1230.1	1214.9	1191.5	1181.7
45°	1171.8	1161.0	1143.1	1118.9	1107.2
47.5°	1098.2	1089.2	1070.4	1044.4	1031.8
50°	1021.1	1013.9	994.1	965.4	953.8
52.5°	947.5	937.6	915.2	886.5	873.9
55°	866.7	860.5	832.6	805.7	793.2
57.5°	786.0	777.9	750.1	723.2	711.5
60°	703.4	696.3	666.6	639.7	625.4
62.5°	620.0	611.9	580.5	556.3	542.8
65°	533.9	527.6	496.2	474.6	463.9
67.5°	447.7	443.2	410.0	392.1	384.0
70°	363.4	357.1	331.1	323.9	358.0
72.5°	285.3	277.2	254.8	243.2	234.2
75°	211.7	207.3	203.7	196.5	183.0
77.5°	148.9	148.0	135.5	125.6	135.5
80°	102.3	105.9	91.5	83.4	87.0
82.5°	62.8	70.0	54.7	48.5	46.7
85°	31.4	32.3	26.9	25.1	24.2
87.5°	11.7	13.5	11.7	9.9	9.9
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)