

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: P505998

Luminaire Tested: **14PD-55-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505998
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-55-PL1-L830
Description: 5500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

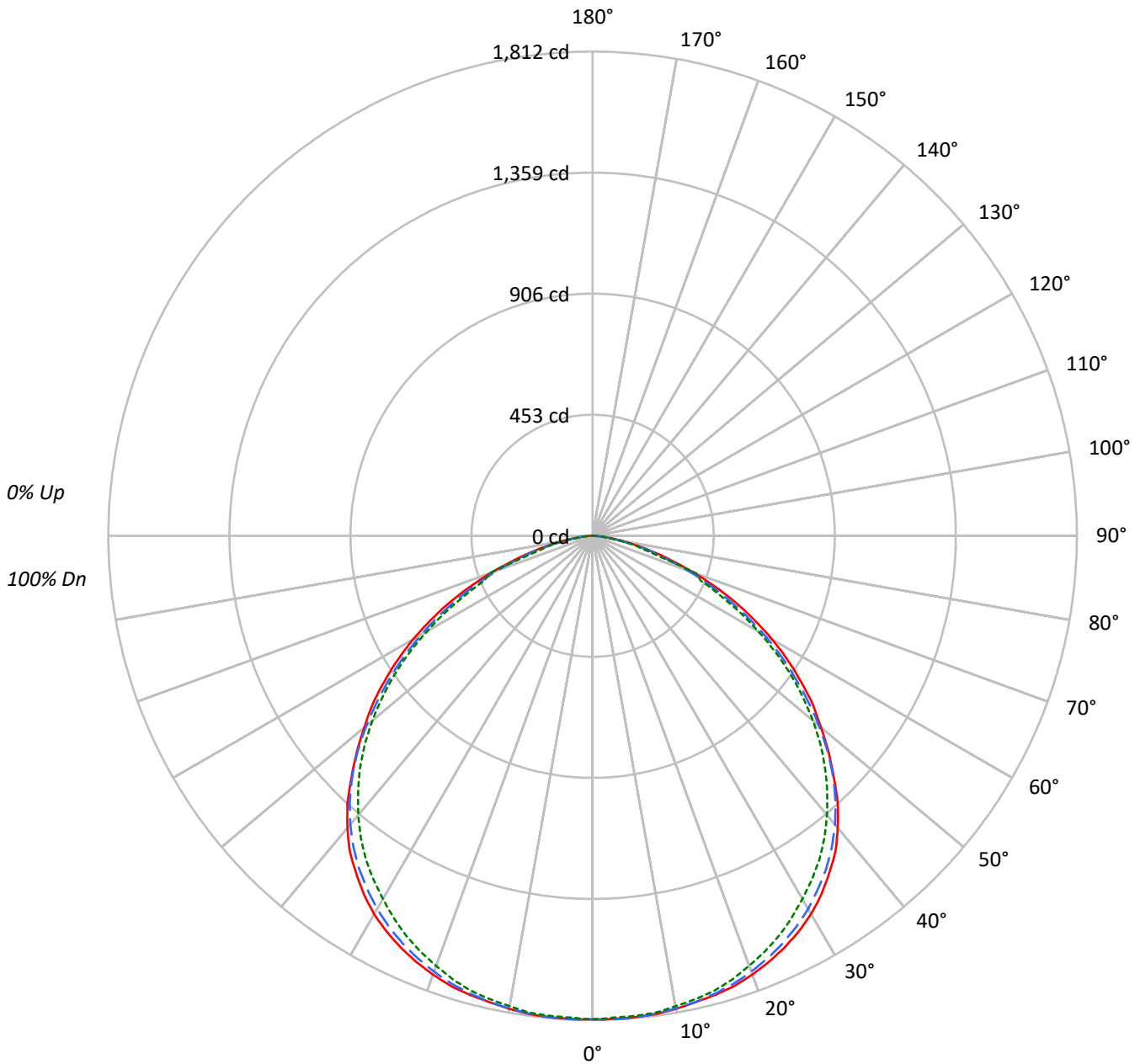
Lumens per Lamp: N/A
Luminaire Lumens: 5030.6 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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

TEST NUMBER: P505998

CATALOG NUMBER: 14PD-55-PL1-L830

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	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°	4871	4871	4871
5°	4887	4889	4873
10°	4913	4908	4886
15°	4954	4940	4910
20°	5004	4970	4904
25°	5047	4997	4902
30°	5081	5010	4877
35°	5068	5003	4859
40°	5014	4954	4790
45°	4853	4838	4683
50°	4669	4627	4502
55°	4467	4337	4239
60°	4173	3985	3852
65°	3759	3525	3335
70°	3144	2948	3238
75°	2481	2387	2067
80°	1787	1587	1618
85°	1136	951	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.4
10°-20°	500.2	9.9
20°-30°	773.4	15.4
30°-40°	946.6	18.8
40°-50°	970.4	19.3
50°-60°	826.5	16.4
60°-70°	552.3	11.0
70°-80°	244.8	4.9
80°-90°	44.3	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°	1445.7	28.7
0°-40°	2392.3	47.6
0°-60°	4189.2	83.3
0°-90°	5030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5030.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1809	1805	1810	1809	1804	172
15°	1778	1772	1773	1768	1762	503
25°	1700	1694	1683	1661	1651	784
35°	1543	1539	1523	1489	1479	965
45°	1275	1279	1271	1242	1230	984
55°	952	947	924	906	904	850
65°	590	585	554	529	524	582
75°	239	242	230	231	199	258
85°	37	36	31	30	29	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.0	1810.0	1810.0	1810.0	1810.0
2.5°	1810.0	1807.0	1812.0	1814.0	1805.0
5°	1809.0	1805.0	1810.0	1809.0	1804.0
7.5°	1806.0	1799.1	1804.0	1802.1	1800.1
10°	1798.1	1792.1	1796.1	1793.1	1788.1
12.5°	1787.2	1783.2	1786.2	1783.2	1776.2
15°	1778.2	1772.2	1773.2	1768.3	1762.3
17.5°	1766.3	1757.3	1757.3	1747.4	1740.4
20°	1747.4	1739.4	1735.5	1721.6	1712.6
22.5°	1725.5	1719.6	1711.6	1693.7	1683.8
25°	1699.7	1693.7	1682.8	1660.9	1651.0
27.5°	1669.9	1661.9	1650.0	1624.1	1612.2
30°	1635.1	1625.1	1612.2	1583.4	1569.5
32.5°	1592.3	1585.4	1568.5	1538.7	1525.7
35°	1542.6	1538.7	1522.8	1489.0	1479.0
37.5°	1491.9	1484.0	1470.1	1434.3	1424.4
40°	1427.3	1422.4	1410.4	1375.7	1363.7
42.5°	1357.8	1354.8	1344.8	1312.0	1299.1
45°	1275.3	1279.2	1271.3	1242.5	1230.5
47.5°	1196.7	1194.7	1191.8	1165.9	1156.0
50°	1115.2	1111.3	1105.3	1084.4	1075.5
52.5°	1038.7	1030.7	1014.8	996.9	991.0
55°	952.2	947.3	924.4	905.5	903.5
57.5°	864.8	861.8	833.9	812.1	812.1
60°	775.3	771.3	740.5	717.6	715.7
62.5°	681.9	678.9	647.1	621.2	622.2
65°	590.4	585.4	553.6	528.8	523.8
67.5°	495.0	493.0	462.2	439.3	437.3
70°	399.6	399.6	374.7	354.8	411.5
72.5°	315.1	312.1	292.2	283.3	270.4
75°	238.6	241.5	229.6	230.6	198.8
77.5°	170.0	165.0	160.0	149.1	158.0
80°	115.3	112.3	102.4	99.4	104.4
82.5°	71.6	72.6	63.6	57.7	56.7
85°	36.8	35.8	30.8	29.8	28.8
87.5°	13.9	14.9	12.9	11.9	10.9
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)