

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: P505999

Luminaire Tested: **14PD-55-PL1-L835**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505999
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-L835
Description: 5500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

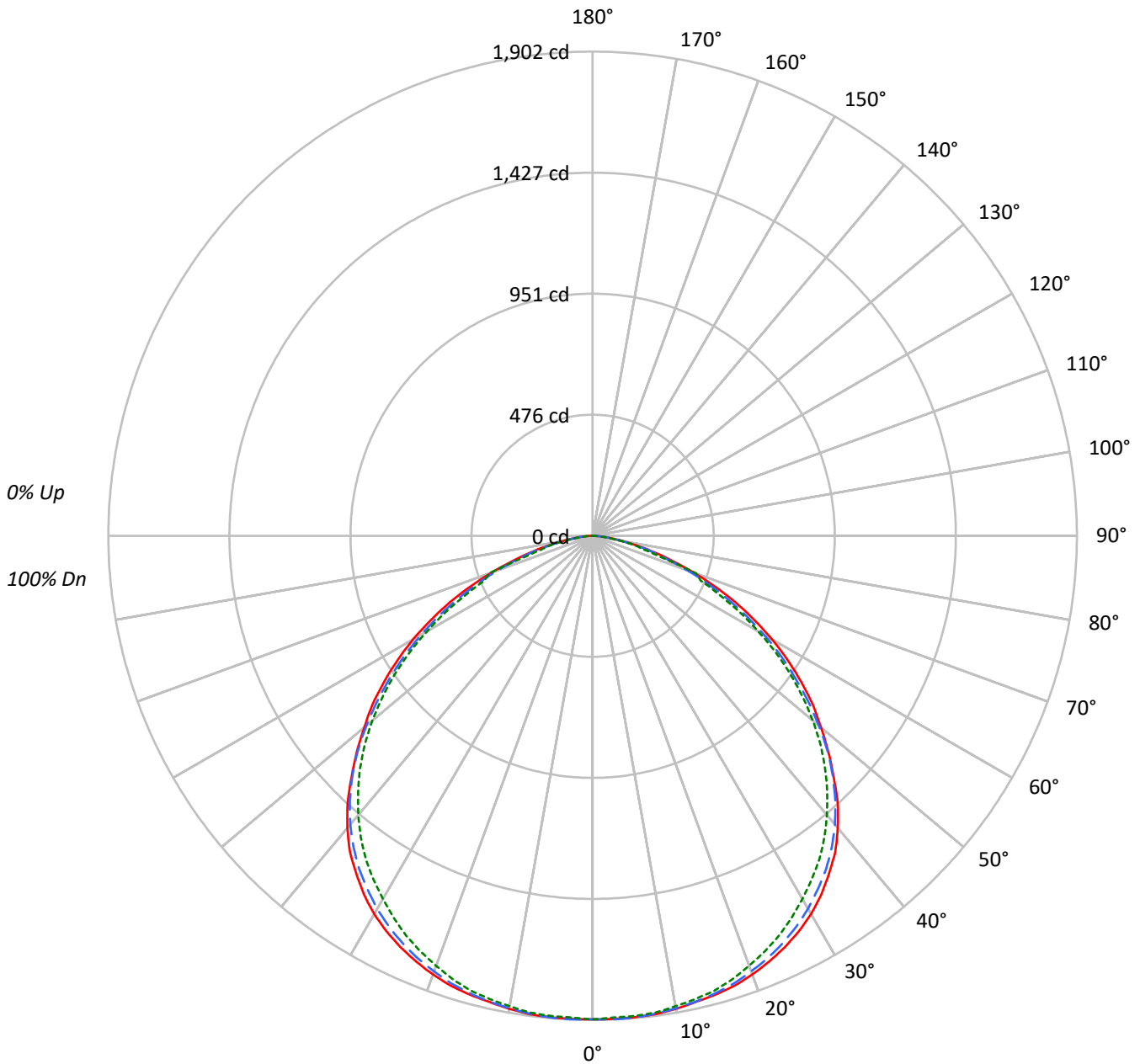
Lumens per Lamp: N/A
Luminaire Lumens: 5279.5 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P505999

CATALOG NUMBER: 14PD-55-PL1-L835

Luminous Intensity Polar Plot





TEST NUMBER: P505999

CATALOG NUMBER: 14PD-55-PL1-L835

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°	5112	5112	5112
5°	5128	5131	5114
10°	5156	5151	5128
15°	5199	5185	5153
20°	5252	5216	5147
25°	5296	5244	5145
30°	5332	5258	5118
35°	5319	5250	5099
40°	5262	5200	5028
45°	5093	5077	4915
50°	4900	4856	4725
55°	4688	4551	4449
60°	4379	4182	4042
65°	3945	3699	3500
70°	3299	3094	3398
75°	2603	2506	2169
80°	1875	1664	1697
85°	1192	997	936



TEST NUMBER: P505999

CATALOG NUMBER: 14PD-55-PL1-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.4
10°-20°	525.0	9.9
20°-30°	811.7	15.4
30°-40°	993.4	18.8
40°-50°	1018.4	19.3
50°-60°	867.4	16.4
60°-70°	579.6	11.0
70°-80°	256.9	4.9
80°-90°	46.5	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°	1517.3	28.7
0°-40°	2510.7	47.6
0°-60°	4396.5	83.3
0°-90°	5279.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5279.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1898	1894	1900	1898	1893	181
15°	1866	1860	1861	1856	1850	528
25°	1784	1778	1766	1743	1733	823
35°	1619	1615	1598	1563	1552	1012
45°	1338	1342	1334	1304	1291	1033
55°	999	994	970	950	948	892
65°	620	614	581	555	550	611
75°	250	254	241	242	209	271
85°	39	38	32	31	30	51
90°	0	0	0	0	0	



TEST NUMBER: P505999

CATALOG NUMBER: 14PD-55-PL1-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.6	1899.6	1899.6	1899.6	1899.6
2.5°	1899.6	1896.5	1901.7	1903.8	1894.4
5°	1898.5	1894.4	1899.6	1898.5	1893.3
7.5°	1895.4	1888.1	1893.3	1891.2	1889.1
10°	1887.1	1880.8	1885.0	1881.8	1876.6
12.5°	1875.6	1871.4	1874.5	1871.4	1864.1
15°	1866.2	1859.9	1861.0	1855.8	1849.5
17.5°	1853.7	1844.3	1844.3	1833.9	1826.6
20°	1833.9	1825.5	1821.3	1806.7	1797.4
22.5°	1810.9	1804.7	1796.3	1777.5	1767.1
25°	1783.8	1777.5	1766.1	1743.1	1732.7
27.5°	1752.5	1744.2	1731.6	1704.5	1692.0
30°	1716.0	1705.6	1692.0	1661.7	1647.1
32.5°	1671.1	1663.8	1646.1	1614.8	1601.2
35°	1619.0	1614.8	1598.1	1562.6	1552.2
37.5°	1565.8	1557.4	1542.8	1505.3	1494.8
40°	1498.0	1492.8	1480.2	1443.7	1431.2
42.5°	1424.9	1421.8	1411.4	1377.0	1363.4
45°	1338.4	1342.5	1334.2	1303.9	1291.4
47.5°	1256.0	1253.9	1250.7	1223.6	1213.2
50°	1170.4	1166.2	1160.0	1138.1	1128.7
52.5°	1090.1	1081.7	1065.1	1046.3	1040.0
55°	999.3	994.1	970.1	950.3	948.2
57.5°	907.5	904.4	875.2	852.3	852.3
60°	813.7	809.5	777.1	753.2	751.1
62.5°	715.6	712.5	679.1	652.0	653.0
65°	619.6	614.4	581.0	555.0	549.7
67.5°	519.5	517.4	485.1	461.1	459.0
70°	419.3	419.3	393.3	372.4	431.9
72.5°	330.7	327.5	306.7	297.3	283.7
75°	250.4	253.5	241.0	242.0	208.6
77.5°	178.4	173.2	167.9	156.5	165.9
80°	121.0	117.9	107.4	104.3	109.5
82.5°	75.1	76.2	66.8	60.5	59.5
85°	38.6	37.6	32.3	31.3	30.3
87.5°	14.6	15.6	13.6	12.5	11.5
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)