

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: P506001

Luminaire Tested: **14PD-55-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506001
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-L850
Description: 5500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI, 5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

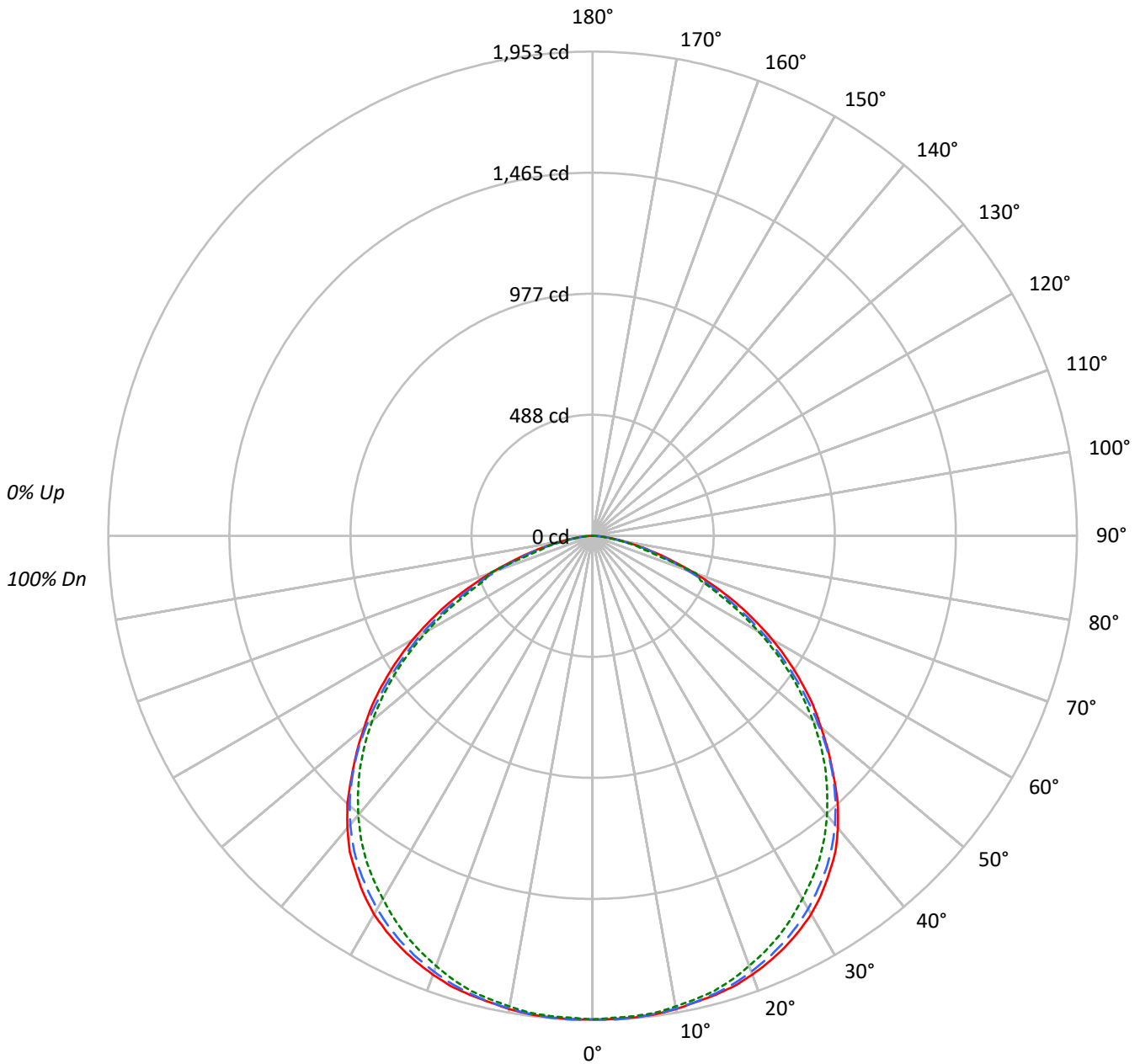
Lumens per Lamp: N/A
Luminaire Lumens: 5422.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P506001

CATALOG NUMBER: 14PD-55-PL1-L850

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			100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72			72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61			61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52			52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45			45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40			40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35			35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31			31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28			28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5250	5250	5250
5°	5267	5270	5253
10°	5296	5290	5267
15°	5340	5325	5292
20°	5394	5357	5287
25°	5440	5386	5284
30°	5477	5400	5257
35°	5463	5392	5237
40°	5405	5341	5164
45°	5232	5215	5048
50°	5033	4988	4853
55°	4815	4675	4569
60°	4498	4296	4152
65°	4052	3800	3596
70°	3389	3178	3490
75°	2673	2573	2228
80°	1926	1711	1743
85°	1223	1025	960



TEST NUMBER: P506001

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	3.4
10°-20°	539.2	9.9
20°-30°	833.7	15.4
30°-40°	1020.4	18.8
40°-50°	1046.1	19.3
50°-60°	890.9	16.4
60°-70°	595.4	11.0
70°-80°	263.9	4.9
80°-90°	47.7	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°	1558.4	28.7
0°-40°	2578.8	47.6
0°-60°	4515.8	83.3
0°-90°	5422.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5422.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1950	1946	1951	1950	1945	186
15°	1917	1910	1912	1906	1900	542
25°	1832	1826	1814	1790	1780	845
35°	1663	1659	1642	1605	1594	1040
45°	1375	1379	1370	1339	1326	1061
55°	1026	1021	996	976	974	916
65°	636	631	597	570	565	627
75°	257	260	248	249	214	278
85°	40	39	33	32	31	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1951.1	1951.1	1951.1	1951.1	1951.1
2.5°	1951.1	1947.9	1953.3	1955.4	1945.8
5°	1950.0	1945.8	1951.1	1950.0	1944.7
7.5°	1946.8	1939.3	1944.7	1942.5	1940.4
10°	1938.3	1931.8	1936.1	1932.9	1927.5
12.5°	1926.5	1922.2	1925.4	1922.2	1914.7
15°	1916.8	1910.4	1911.5	1906.1	1899.7
17.5°	1904.0	1894.3	1894.3	1883.6	1876.1
20°	1883.6	1875.0	1870.7	1855.7	1846.1
22.5°	1860.0	1853.6	1845.0	1825.7	1815.0
25°	1832.2	1825.7	1814.0	1790.4	1779.7
27.5°	1800.0	1791.5	1778.6	1750.7	1737.9
30°	1762.5	1751.8	1737.9	1706.8	1691.8
32.5°	1716.5	1709.0	1690.7	1658.6	1644.7
35°	1662.9	1658.6	1641.5	1605.0	1594.3
37.5°	1608.2	1599.7	1584.7	1546.1	1535.4
40°	1538.6	1533.2	1520.4	1482.9	1470.0
42.5°	1463.6	1460.4	1449.7	1414.3	1400.4
45°	1374.7	1379.0	1370.4	1339.3	1326.5
47.5°	1290.0	1287.9	1284.7	1256.8	1246.1
50°	1202.2	1197.9	1191.5	1169.0	1159.3
52.5°	1119.7	1111.1	1093.9	1074.7	1068.2
55°	1026.4	1021.1	996.4	976.1	973.9
57.5°	932.2	928.9	898.9	875.4	875.4
60°	835.7	831.4	798.2	773.6	771.4
62.5°	735.0	731.8	697.5	669.7	670.7
65°	636.4	631.1	596.8	570.0	564.7
67.5°	533.6	531.4	498.2	473.6	471.4
70°	430.7	430.7	403.9	382.5	443.6
72.5°	339.6	336.4	315.0	305.4	291.4
75°	257.1	260.4	247.5	248.6	214.3
77.5°	183.2	177.9	172.5	160.7	170.4
80°	124.3	121.1	110.4	107.1	112.5
82.5°	77.1	78.2	68.6	62.1	61.1
85°	39.6	38.6	33.2	32.1	31.1
87.5°	15.0	16.1	13.9	12.9	11.8
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)