

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: P505951

Luminaire Tested: **14PD-45-PL1-L940**

Issue Date: 3/26/2021



**Test Information**

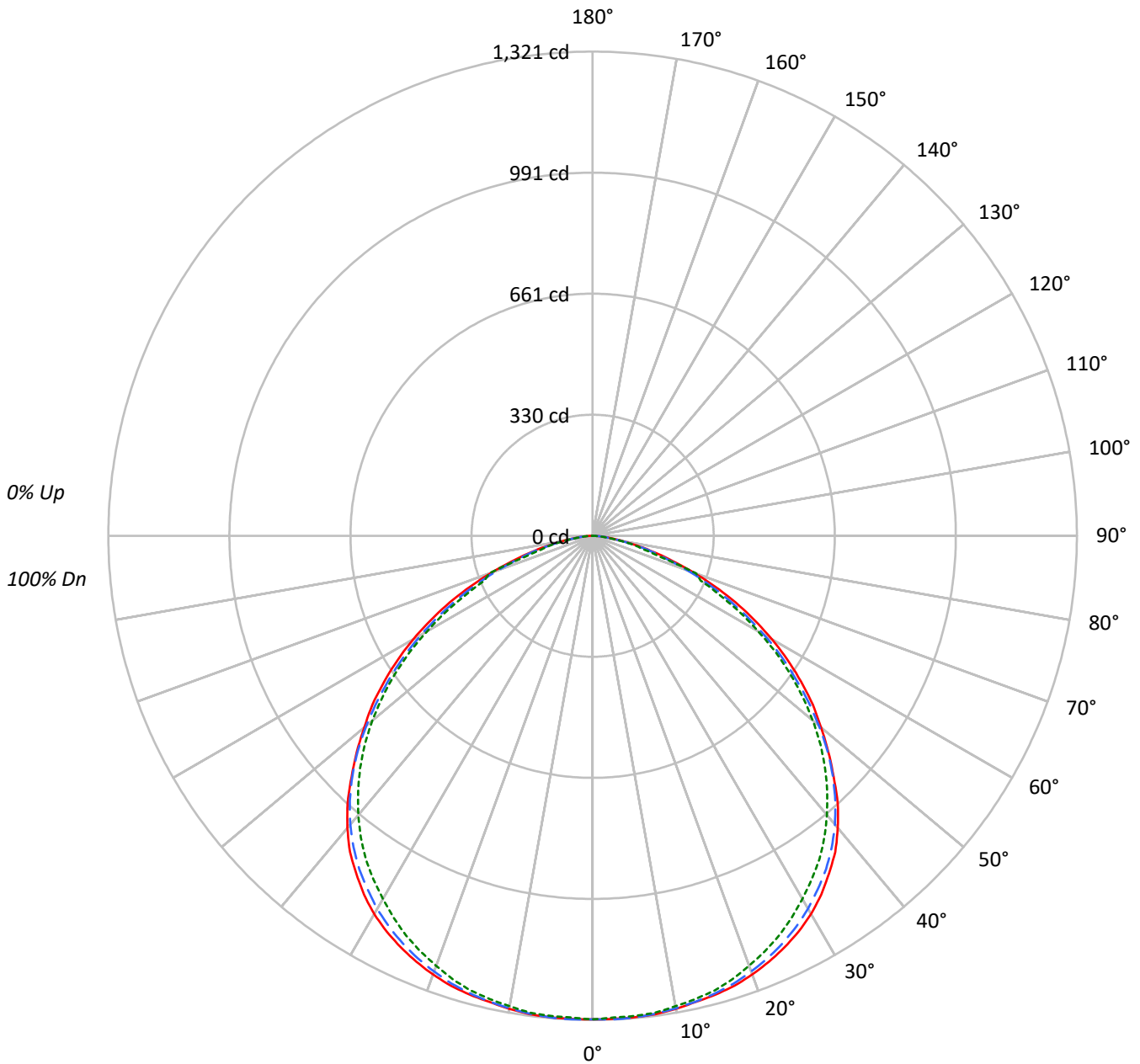
Test Method: LM-79-08  
Report Number: P505951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PL1-L940  
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3666.7 lumens  
Efficiency: N/A  
Efficacy: 85.5 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): 42.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
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°	3550	3550	3550
5°	3562	3564	3552
10°	3581	3577	3562
15°	3611	3601	3578
20°	3647	3623	3575
25°	3679	3642	3573
30°	3703	3651	3555
35°	3694	3646	3541
40°	3655	3612	3492
45°	3537	3526	3413
50°	3403	3373	3282
55°	3256	3161	3090
60°	3041	2905	2807
65°	2740	2569	2431
70°	2291	2149	2360
75°	1808	1740	1507
80°	1302	1156	1179
85°	827	695	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	3.4
10°-20°	364.6	9.9
20°-30°	563.7	15.4
30°-40°	690.0	18.8
40°-50°	707.3	19.3
50°-60°	602.4	16.4
60°-70°	402.5	11.0
70°-80°	178.4	4.9
80°-90°	32.3	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°	1053.8	28.7
0°-40°	1743.7	47.6
0°-60°	3053.5	83.3
0°-90°	3666.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1319	1316	1319	1319	1315	126
15°	1296	1292	1292	1289	1284	366
25°	1239	1234	1227	1211	1203	571
35°	1124	1122	1110	1085	1078	703
45°	930	932	927	906	897	717
55°	694	690	674	660	659	619
65°	430	427	404	385	382	424
75°	174	176	167	168	145	188
85°	27	26	22	22	21	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1319.3	1317.1	1320.7	1322.2	1315.7
5°	1318.6	1315.7	1319.3	1318.6	1315.0
7.5°	1316.4	1311.3	1315.0	1313.5	1312.1
10°	1310.6	1306.3	1309.2	1307.0	1303.4
12.5°	1302.6	1299.7	1301.9	1299.7	1294.7
15°	1296.1	1291.8	1292.5	1288.9	1284.5
17.5°	1287.4	1280.9	1280.9	1273.7	1268.6
20°	1273.7	1267.9	1265.0	1254.8	1248.3
22.5°	1257.7	1253.4	1247.6	1234.5	1227.3
25°	1238.9	1234.5	1226.6	1210.6	1203.4
27.5°	1217.1	1211.3	1202.7	1183.8	1175.1
30°	1191.8	1184.5	1175.1	1154.1	1144.0
32.5°	1160.6	1155.6	1143.2	1121.5	1112.1
35°	1124.4	1121.5	1109.9	1085.3	1078.0
37.5°	1087.5	1081.7	1071.5	1045.4	1038.2
40°	1040.4	1036.7	1028.1	1002.7	994.0
42.5°	989.7	987.5	980.2	956.3	946.9
45°	929.5	932.4	926.6	905.6	896.9
47.5°	872.3	870.8	868.7	849.8	842.6
50°	812.9	810.0	805.6	790.4	783.9
52.5°	757.1	751.3	739.7	726.7	722.3
55°	694.1	690.4	673.8	660.0	658.6
57.5°	630.3	628.1	607.8	591.9	591.9
60°	565.1	562.2	539.7	523.1	521.6
62.5°	497.0	494.8	471.6	452.8	453.5
65°	430.3	426.7	403.5	385.4	381.8
67.5°	360.8	359.3	336.9	320.2	318.8
70°	291.2	291.2	273.1	258.6	299.9
72.5°	229.7	227.5	213.0	206.5	197.1
75°	173.9	176.1	167.4	168.1	144.9
77.5°	123.9	120.3	116.6	108.7	115.2
80°	84.0	81.9	74.6	72.4	76.1
82.5°	52.2	52.9	46.4	42.0	41.3
85°	26.8	26.1	22.5	21.7	21.0
87.5°	10.1	10.9	9.4	8.7	8.0
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)