

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: P505960

Luminaire Tested: **14PD-45-PR1-L940**

Issue Date: 3/26/2021



**Test Information**

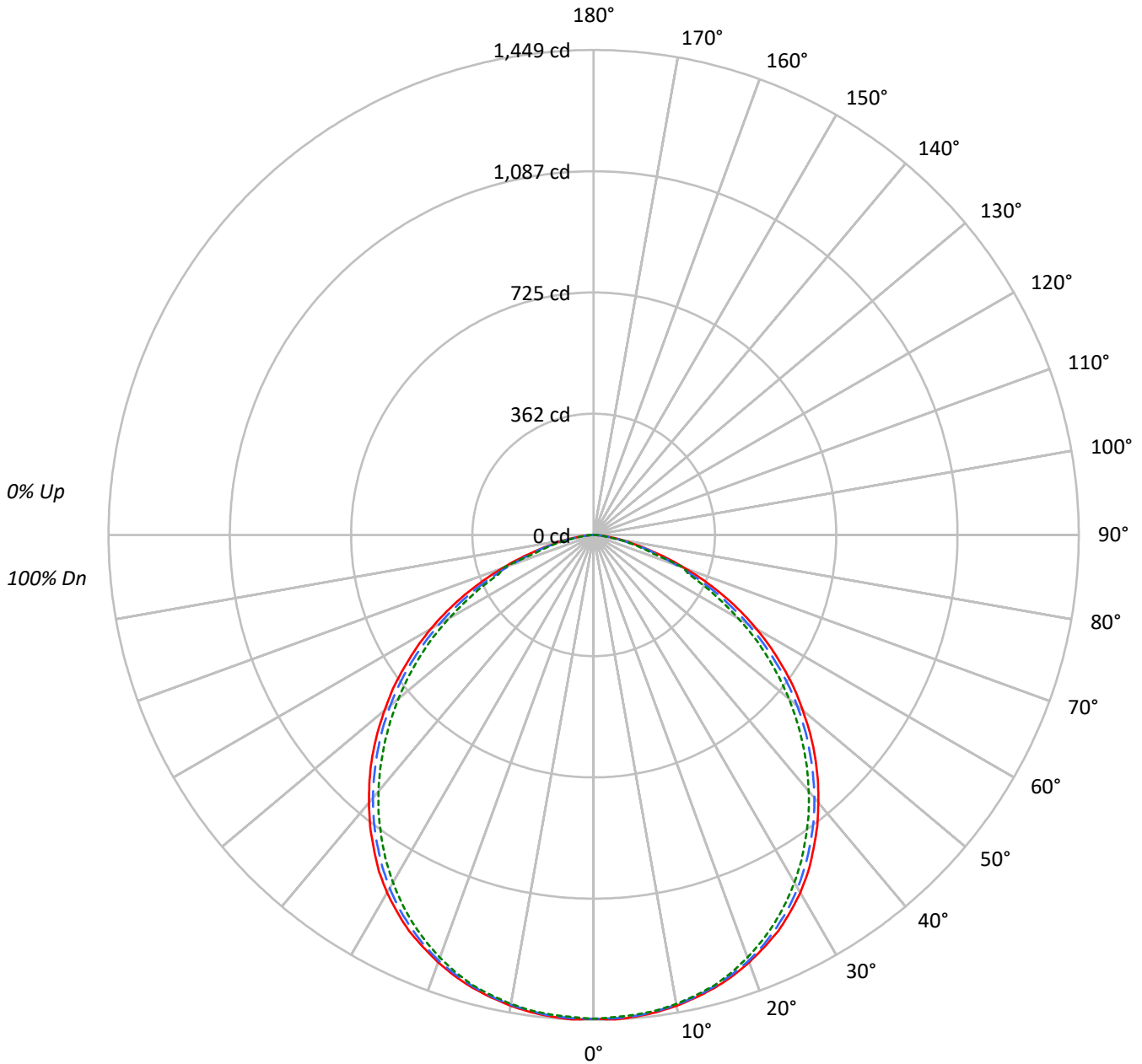
Test Method: LM-79-08  
Report Number: P505960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PR1-L940  
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3720.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 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): 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

TEST NUMBER: P505960  
CATALOG NUMBER: 14PD-45-PR1-L940

### 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	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°	3890	3890	3890
5°	3903	3897	3887
10°	3903	3895	3887
15°	3901	3889	3881
20°	3891	3877	3848
25°	3875	3841	3799
30°	3835	3786	3726
35°	3761	3704	3629
40°	3667	3604	3511
45°	3558	3471	3362
50°	3411	3321	3186
55°	3245	3117	2969
60°	3021	2863	2686
65°	2713	2521	2357
70°	2282	2079	2248
75°	1757	1690	1519
80°	1265	1131	1075
85°	775	664	596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	3.7
10°-20°	393.6	10.6
20°-30°	594.6	16.0
30°-40°	703.4	18.9
40°-50°	701.4	18.9
50°-60°	592.5	15.9
60°-70°	394.8	10.6
70°-80°	171.5	4.6
80°-90°	31.1	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°	1125.2	30.2
0°-40°	1828.7	49.2
0°-60°	3122.6	83.9
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1445	1439	1443	1441	1439	137
15°	1400	1394	1396	1394	1393	395
25°	1305	1297	1294	1282	1279	601
35°	1145	1137	1128	1113	1105	716
45°	935	926	912	893	884	720
55°	692	687	664	643	633	617
65°	426	421	396	379	370	421
75°	169	165	162	157	146	185
85°	25	26	22	20	19	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1445.5	1445.5	1445.5	1445.5	1445.5
2.5°	1449.1	1442.6	1445.5	1445.5	1441.9
5°	1444.8	1439.0	1442.6	1441.2	1439.0
7.5°	1438.3	1432.6	1434.8	1434.0	1433.3
10°	1428.3	1422.6	1425.4	1424.0	1422.6
12.5°	1415.4	1409.7	1412.6	1410.4	1409.0
15°	1400.4	1393.9	1396.1	1393.9	1393.2
17.5°	1381.8	1375.3	1376.0	1373.2	1370.3
20°	1358.9	1353.1	1353.9	1346.7	1343.8
22.5°	1332.4	1326.6	1325.9	1316.6	1313.0
25°	1305.2	1296.6	1293.7	1282.3	1279.4
27.5°	1270.8	1262.9	1258.6	1246.5	1240.7
30°	1234.3	1225.7	1218.5	1204.9	1199.2
32.5°	1192.8	1184.2	1174.9	1160.5	1154.1
35°	1144.8	1136.9	1127.6	1112.6	1104.7
37.5°	1096.8	1088.2	1078.9	1061.0	1054.6
40°	1043.8	1036.0	1025.9	1006.6	999.5
42.5°	990.9	981.6	969.4	950.8	942.9
45°	935.0	926.4	912.1	892.8	883.5
47.5°	876.3	869.2	854.1	833.4	823.3
50°	814.7	809.0	793.3	770.4	761.0
52.5°	756.0	748.2	730.3	707.4	697.3
55°	691.6	686.6	664.4	642.9	632.9
57.5°	627.2	620.7	598.5	577.1	567.7
60°	561.3	555.6	531.9	510.5	499.0
62.5°	494.7	488.3	463.2	443.9	433.1
65°	426.0	421.0	395.9	378.7	370.1
67.5°	357.3	353.7	327.2	312.9	306.4
70°	290.0	284.9	264.2	258.5	285.7
72.5°	227.7	221.2	203.3	194.0	186.9
75°	169.0	165.4	162.5	156.8	146.1
77.5°	118.8	118.1	108.1	100.2	108.1
80°	81.6	84.5	73.0	66.6	69.4
82.5°	50.1	55.8	43.7	38.7	37.2
85°	25.1	25.8	21.5	20.0	19.3
87.5°	9.3	10.7	9.3	7.9	7.9
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)