

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: P505952

Luminaire Tested: **14PD-45-PL1-L950**

Issue Date: 3/26/2021



**Test Information**

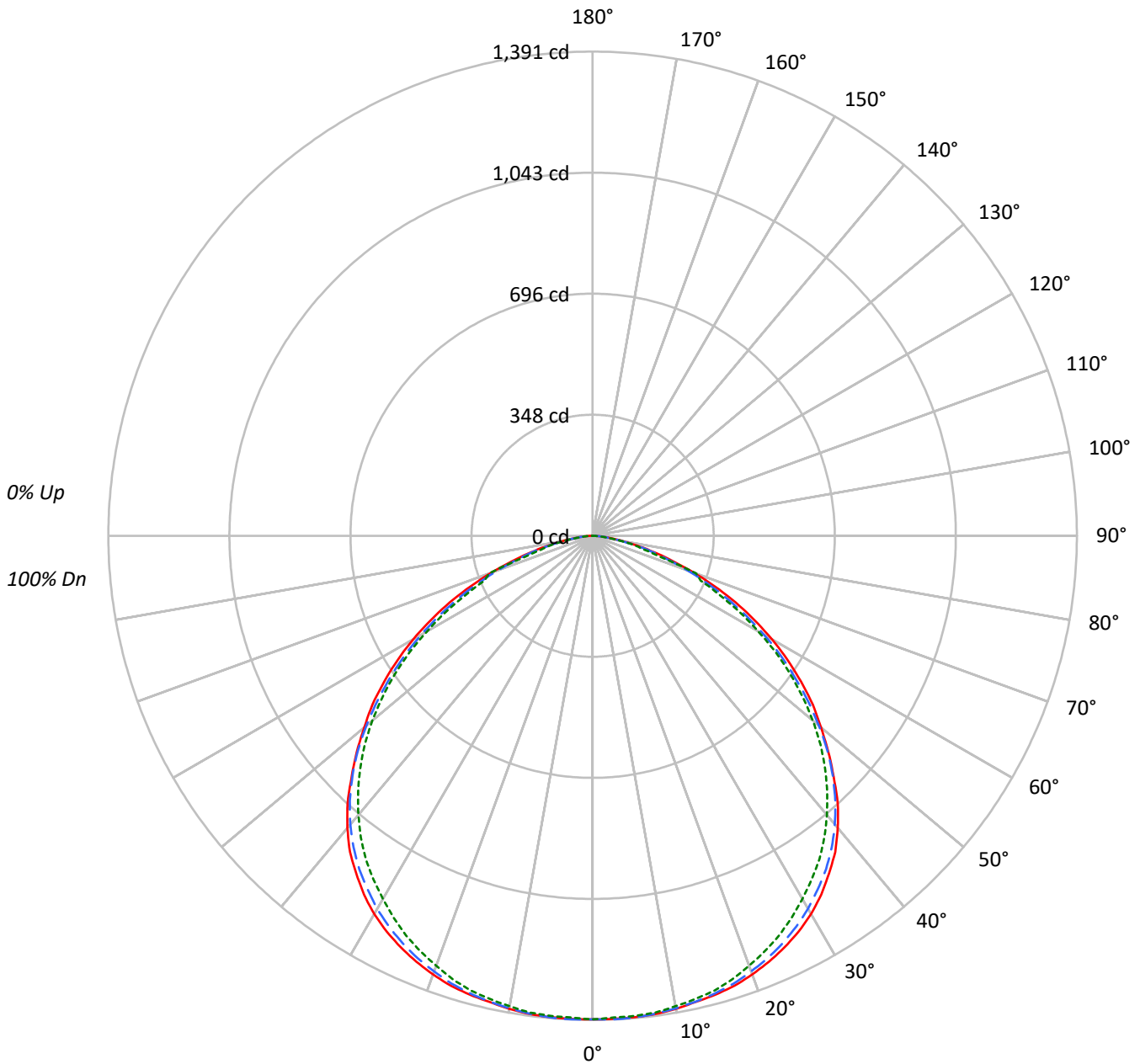
Test Method: LM-79-08  
Report Number: P505952  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PL1-L950  
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3860.9 lumens  
Efficiency: N/A  
Efficacy: 90.0 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): 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°	3738	3738	3738
5°	3750	3753	3740
10°	3771	3767	3750
15°	3802	3791	3768
20°	3840	3814	3764
25°	3873	3835	3762
30°	3899	3845	3743
35°	3889	3839	3729
40°	3848	3803	3677
45°	3725	3713	3594
50°	3583	3551	3455
55°	3429	3329	3253
60°	3202	3059	2956
65°	2885	2706	2560
70°	2413	2263	2485
75°	1904	1832	1587
80°	1371	1218	1241
85°	871	729	682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.4
10°-20°	383.9	9.9
20°-30°	593.6	15.4
30°-40°	726.5	18.8
40°-50°	744.8	19.3
50°-60°	634.3	16.4
60°-70°	423.9	11.0
70°-80°	187.9	4.9
80°-90°	34.0	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°	1109.6	28.7
0°-40°	1836.1	47.6
0°-60°	3215.2	83.3
0°-90°	3860.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3860.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1388	1385	1389	1388	1385	132
15°	1365	1360	1361	1357	1352	386
25°	1304	1300	1292	1275	1267	602
35°	1184	1181	1169	1143	1135	740
45°	979	982	976	954	944	755
55°	731	727	710	695	693	652
65°	453	449	425	406	402	447
75°	183	185	176	177	153	198
85°	28	28	24	23	22	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1389.2	1389.2	1389.2	<i>1389.2</i>	1389.2
2.5°	<i>1389.2</i>	<i>1386.9</i>	<i>1390.7</i>	<i>1392.2</i>	<i>1385.3</i>
5°	1388.4	1385.3	1389.2	<i>1388.4</i>	1384.6
7.5°	1386.1	1380.8	1384.6	<i>1383.0</i>	1381.5
10°	1380.0	1375.4	1378.5	<i>1376.2</i>	1372.4
12.5°	1371.6	1368.6	1370.8	<i>1368.6</i>	1363.2
15°	1364.7	1360.2	1360.9	<i>1357.1</i>	1352.5
17.5°	1355.6	1348.7	1348.7	<i>1341.1</i>	1335.8
20°	1341.1	1335.0	1331.9	<i>1321.3</i>	1314.4
22.5°	1324.3	1319.7	1313.6	<i>1299.9</i>	1292.3
25°	1304.5	1299.9	1291.5	<i>1274.7</i>	1267.1
27.5°	1281.6	1275.5	1266.3	<i>1246.5</i>	1237.3
30°	1254.9	1247.3	1237.3	<i>1215.2</i>	1204.5
32.5°	1222.1	1216.7	1203.8	<i>1180.9</i>	1171.0
35°	1183.9	1180.9	1168.7	<i>1142.8</i>	1135.1
37.5°	1145.0	1138.9	1128.3	<i>1100.8</i>	1093.2
40°	1095.5	1091.6	1082.5	<i>1055.8</i>	1046.6
42.5°	1042.1	1039.8	1032.1	<i>1007.0</i>	997.0
45°	978.7	981.8	975.7	<i>953.6</i>	944.4
47.5°	918.5	916.9	914.7	<i>894.8</i>	887.2
50°	855.9	852.9	848.3	<i>832.3</i>	825.4
52.5°	797.2	791.1	778.9	<i>765.1</i>	760.6
55°	730.8	727.0	709.5	<i>695.0</i>	693.4
57.5°	663.7	661.4	640.0	<i>623.2</i>	623.2
60°	595.0	592.0	568.3	<i>550.8</i>	549.3
62.5°	523.3	521.0	496.6	<i>476.8</i>	477.5
65°	453.1	449.3	424.9	<i>405.8</i>	402.0
67.5°	379.9	378.4	354.7	<i>337.2</i>	335.7
70°	306.7	306.7	287.6	<i>272.3</i>	315.8
72.5°	241.8	239.5	224.3	<i>217.4</i>	207.5
75°	183.1	185.4	176.2	<i>177.0</i>	152.6
77.5°	130.4	126.6	122.8	<i>114.4</i>	121.3
80°	88.5	86.2	78.6	<i>76.3</i>	80.1
82.5°	54.9	55.7	48.8	<i>44.2</i>	43.5
85°	28.2	27.5	23.6	<i>22.9</i>	22.1
87.5°	10.7	11.4	9.9	<i>9.2</i>	8.4
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)