

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: P505919

Luminaire Tested: **14PD-40-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505919  
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-40-PL1-L840  
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

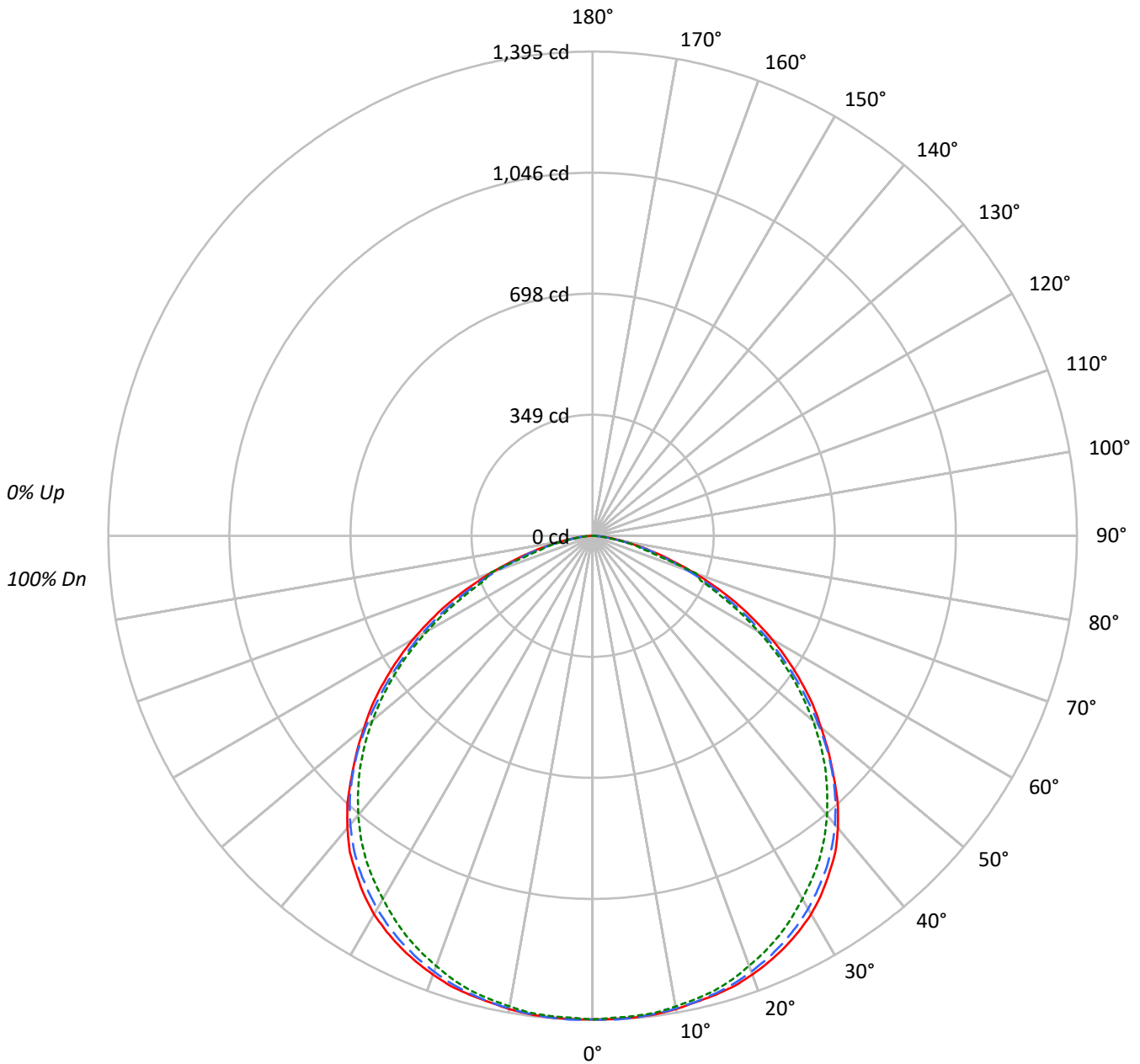
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3873.4 lumens  
Efficiency: N/A  
Efficacy: 102.5 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): 37.8  
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°	3750	3750	3750
5°	3763	3764	3752
10°	3783	3779	3762
15°	3814	3804	3780
20°	3853	3826	3776
25°	3886	3847	3774
30°	3912	3857	3755
35°	3902	3852	3741
40°	3861	3815	3688
45°	3737	3725	3606
50°	3595	3563	3467
55°	3440	3339	3264
60°	3212	3069	2965
65°	2895	2714	2568
70°	2421	2270	2493
75°	1910	1838	1592
80°	1376	1221	1246
85°	874	732	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	3.4
10°-20°	385.2	9.9
20°-30°	595.5	15.4
30°-40°	728.8	18.8
40°-50°	747.2	19.3
50°-60°	636.4	16.4
60°-70°	425.3	11.0
70°-80°	188.5	4.9
80°-90°	34.1	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°	1113.2	28.7
0°-40°	1842.0	47.6
0°-60°	3225.6	83.3
0°-90°	3873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3873.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1393	1390	1394	1393	1389	133
15°	1369	1365	1365	1362	1357	387
25°	1309	1304	1296	1279	1271	603
35°	1188	1185	1172	1146	1139	743
45°	982	985	979	957	948	758
55°	733	729	712	697	696	654
65°	455	451	426	407	403	448
75°	184	186	177	178	153	199
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°	1393.6	1393.6	1393.6	<i>1393.6</i>	1393.6
2.5°	<i>1393.6</i>	<i>1391.4</i>	<i>1395.2</i>	<i>1396.7</i>	<i>1389.8</i>
5°	1392.9	1389.8	1393.6	<i>1392.9</i>	1389.1
7.5°	1390.6	1385.2	1389.1	<i>1387.5</i>	1386.0
10°	1384.5	1379.9	1382.9	<i>1380.6</i>	1376.8
12.5°	1376.0	1373.0	1375.3	<i>1373.0</i>	1367.6
15°	1369.2	1364.6	1365.3	<i>1361.5</i>	1356.9
17.5°	1360.0	1353.1	1353.1	<i>1345.4</i>	1340.1
20°	1345.4	1339.3	1336.2	<i>1325.5</i>	1318.6
22.5°	1328.6	1324.0	1317.9	<i>1304.1</i>	1296.5
25°	1308.7	1304.1	1295.7	<i>1278.9</i>	1271.2
27.5°	1285.7	1279.6	1270.4	<i>1250.5</i>	1241.3
30°	1259.0	1251.3	1241.3	<i>1219.2</i>	1208.4
32.5°	1226.0	1220.7	1207.7	<i>1184.7</i>	1174.8
35°	1187.8	1184.7	1172.5	<i>1146.4</i>	1138.8
37.5°	1148.7	1142.6	1131.9	<i>1104.4</i>	1096.7
40°	1099.0	1095.2	1086.0	<i>1059.2</i>	1050.0
42.5°	1045.4	1043.1	1035.5	<i>1010.2</i>	1000.3
45°	981.9	985.0	978.8	<i>956.7</i>	947.5
47.5°	921.4	919.9	917.6	<i>897.7</i>	890.1
50°	858.7	855.6	851.0	<i>835.0</i>	828.1
52.5°	799.8	793.6	781.4	<i>767.6</i>	763.0
55°	733.2	729.4	711.7	<i>697.2</i>	695.7
57.5°	665.8	663.5	642.1	<i>625.3</i>	625.3
60°	596.9	593.9	570.2	<i>552.6</i>	551.0
62.5°	525.0	522.7	498.2	<i>478.3</i>	479.1
65°	454.6	450.8	426.3	<i>407.2</i>	403.3
67.5°	381.1	379.6	355.9	<i>338.3</i>	336.7
70°	307.7	307.7	288.5	<i>273.2</i>	316.8
72.5°	242.6	240.3	225.0	<i>218.1</i>	208.2
75°	183.7	186.0	176.8	<i>177.6</i>	153.1
77.5°	130.9	127.0	123.2	<i>114.8</i>	121.7
80°	88.8	86.5	78.8	<i>76.5</i>	80.4
82.5°	55.1	55.9	49.0	<i>44.4</i>	43.6
85°	28.3	27.6	23.7	<i>23.0</i>	22.2
87.5°	10.7	11.5	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)