

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: P505928

Luminaire Tested: **14PD-40-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505928  
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-40-PR1-L840  
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

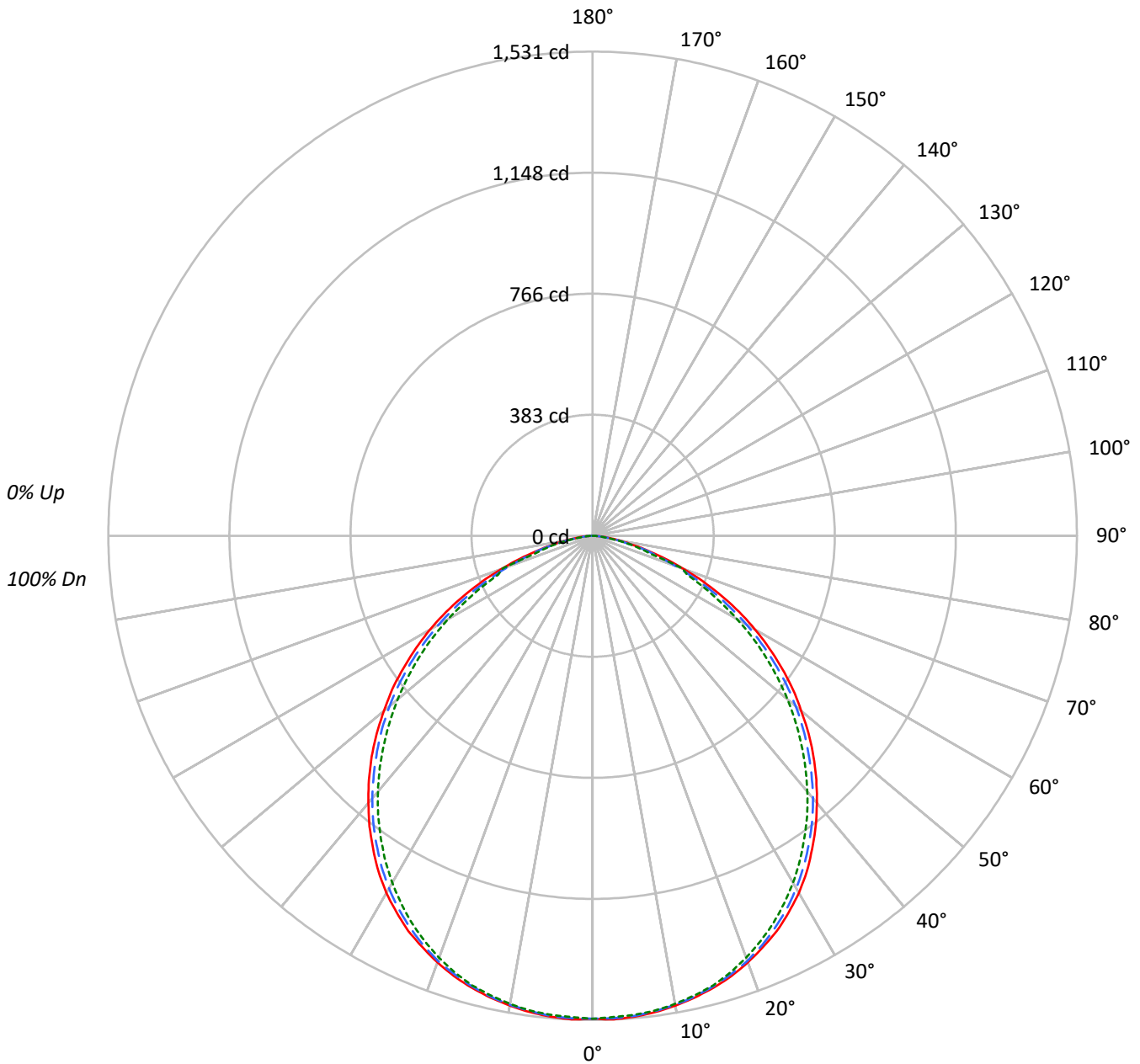
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3929.9 lumens  
Efficiency: N/A  
Efficacy: 104.0 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): 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	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°	4109	4109	4109
5°	4123	4117	4107
10°	4123	4115	4107
15°	4121	4109	4101
20°	4111	4096	4066
25°	4094	4058	4013
30°	4052	4000	3937
35°	3973	3914	3834
40°	3874	3808	3709
45°	3759	3667	3552
50°	3603	3508	3366
55°	3428	3293	3137
60°	3192	3025	2837
65°	2865	2663	2490
70°	2410	2196	2375
75°	1856	1785	1604
80°	1336	1195	1137
85°	818	701	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.7
10°-20°	415.9	10.6
20°-30°	628.1	16.0
30°-40°	743.2	18.9
40°-50°	741.0	18.9
50°-60°	626.0	15.9
60°-70°	417.1	10.6
70°-80°	181.2	4.6
80°-90°	32.8	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°	1188.8	30.2
0°-40°	1931.9	49.2
0°-60°	3298.8	83.9
0°-90°	3929.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1526	1520	1524	1523	1520	145
15°	1479	1473	1475	1473	1472	418
25°	1379	1370	1367	1355	1352	635
35°	1209	1201	1191	1175	1167	756
45°	988	979	964	943	933	761
55°	731	725	702	679	669	652
65°	450	445	418	400	391	445
75°	178	175	172	166	154	195
85°	26	27	23	21	20	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1530.9	1524.1	1527.1	1527.1	1523.3
5°	1526.3	1520.3	1524.1	1522.6	1520.3
7.5°	1519.5	1513.5	1515.7	1515.0	1514.2
10°	1508.9	1502.9	1505.9	1504.4	1502.9
12.5°	1495.3	1489.3	1492.3	1490.0	1488.5
15°	1479.4	1472.6	1474.9	1472.6	1471.9
17.5°	1459.8	1453.0	1453.7	1450.7	1447.7
20°	1435.6	1429.5	1430.3	1422.7	1419.7
22.5°	1407.6	1401.5	1400.8	1390.9	1387.2
25°	1378.8	1369.8	1366.7	1354.6	1351.6
27.5°	1342.5	1334.2	1329.7	1316.8	1310.8
30°	1304.0	1294.9	1287.3	1273.0	1266.9
32.5°	1260.1	1251.0	1241.2	1226.1	1219.3
35°	1209.4	1201.1	1191.3	1175.4	1167.1
37.5°	1158.7	1149.7	1139.8	1120.9	1114.1
40°	1102.8	1094.5	1083.9	1063.4	1055.9
42.5°	1046.8	1037.0	1024.1	1004.4	996.1
45°	987.8	978.7	963.6	943.2	933.3
47.5°	925.8	918.2	902.3	880.4	869.8
50°	860.7	854.7	838.0	813.8	804.0
52.5°	798.7	790.4	771.5	747.3	736.7
55°	730.6	725.3	701.9	679.2	668.6
57.5°	662.6	655.8	632.3	609.6	599.8
60°	593.0	586.9	562.0	539.3	527.2
62.5°	522.6	515.8	489.4	468.9	457.6
65°	450.0	444.7	418.3	400.1	391.0
67.5°	377.4	373.6	345.7	330.5	323.7
70°	306.3	301.0	279.1	273.0	301.8
72.5°	240.5	233.7	214.8	205.0	197.4
75°	178.5	174.7	171.7	165.6	154.3
77.5°	125.6	124.8	114.2	105.9	114.2
80°	86.2	89.3	77.1	70.3	73.4
82.5°	52.9	59.0	46.1	40.8	39.3
85°	26.5	27.2	22.7	21.2	20.4
87.5°	9.8	11.3	9.8	8.3	8.3
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)