

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: P506280

Luminaire Tested: **22PD-40-PR1-L850**

Issue Date: 3/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P506280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-40-PR1-L850  
Description: 4000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

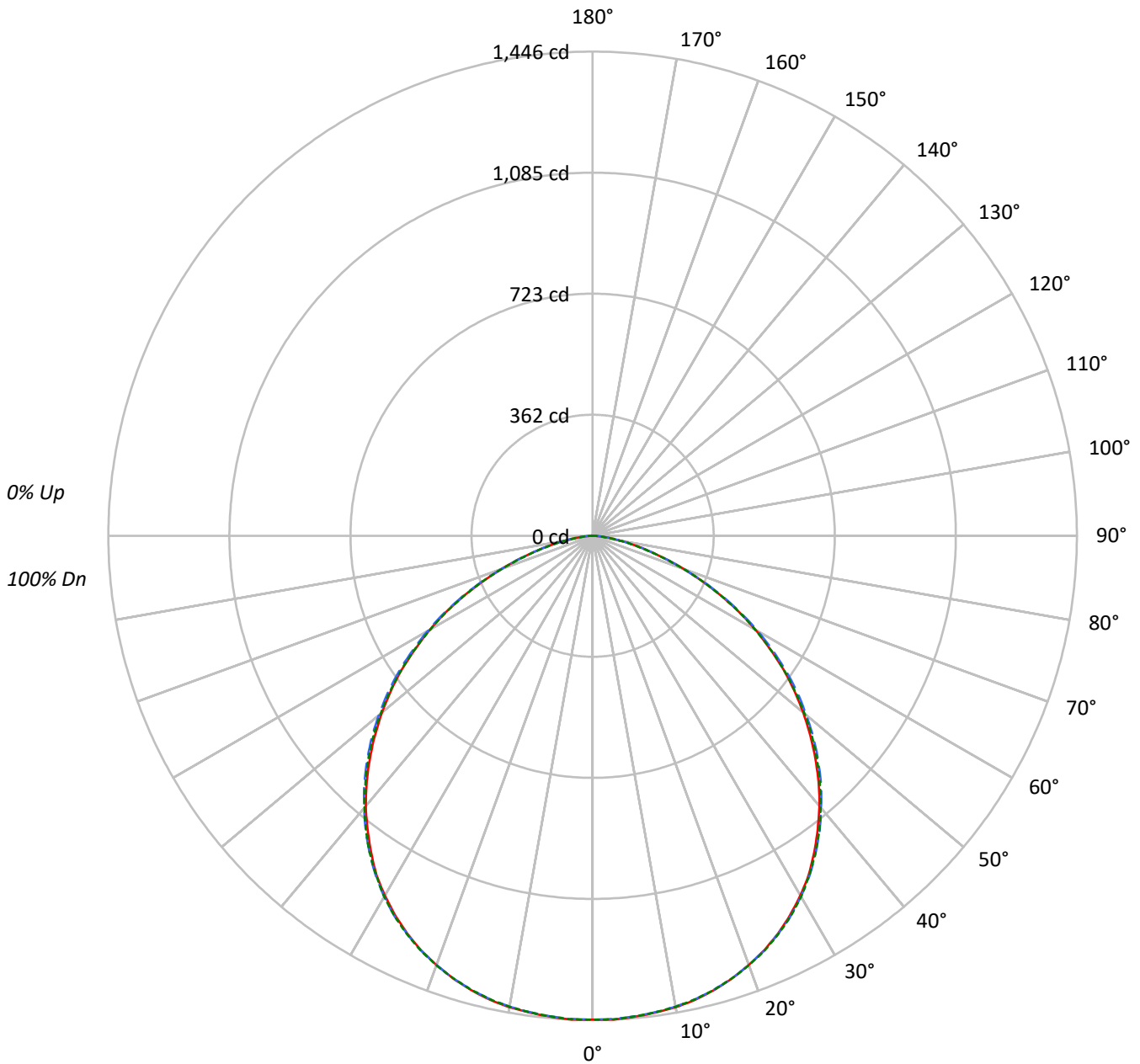
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.6  
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	88	85																			
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36																			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3889	3889	3889
5°	3895	3892	3892
10°	3907	3902	3902
15°	3912	3908	3909
20°	3907	3905	3908
25°	3890	3894	3897
30°	3855	3867	3868
35°	3790	3810	3809
40°	3701	3727	3722
45°	3580	3626	3607
50°	3435	3487	3459
55°	3260	3312	3264
60°	3023	3064	3012
65°	2697	2724	2693
70°	2268	2268	2253
75°	1777	1777	1757
80°	1302	1288	1280
85°	849	849	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	3.6
10°-20°	396.1	10.3
20°-30°	604.1	15.6
30°-40°	724.0	18.7
40°-50°	731.2	18.9
50°-60°	625.6	16.2
60°-70°	421.9	10.9
70°-80°	186.1	4.8
80°-90°	35.7	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°	1137.3	29.4
0°-40°	1861.4	48.2
0°-60°	3218.2	83.3
0°-90°	3862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1442	1440	1441	1440	1441	137
15°	1404	1404	1403	1402	1403	396
25°	1310	1312	1312	1312	1312	603
35°	1154	1160	1160	1159	1159	721
45°	941	948	953	951	948	725
55°	695	701	706	705	696	619
65°	424	427	428	427	423	418
75°	171	171	171	171	169	186
85°	28	28	28	28	28	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1445.3	1445.3	1445.3	1445.3	1445.3
2.5°	1446.3	1444.3	1443.8	1443.4	1445.3
5°	1441.9	1440.0	1440.9	1440.0	1440.9
7.5°	1436.6	1434.7	1435.2	1434.2	1435.2
10°	1429.8	1427.9	1427.9	1426.9	1427.9
12.5°	1419.2	1417.8	1417.3	1416.3	1417.8
15°	1404.2	1403.8	1402.8	1402.3	1403.3
17.5°	1385.9	1384.9	1385.9	1384.4	1385.4
20°	1364.2	1364.6	1363.7	1364.2	1364.6
22.5°	1339.5	1339.5	1340.0	1340.0	1341.0
25°	1310.1	1311.5	1311.5	1311.5	1312.5
27.5°	1277.2	1279.2	1280.6	1279.7	1280.6
30°	1240.5	1243.9	1244.4	1243.9	1244.9
32.5°	1200.9	1203.4	1204.8	1203.8	1202.9
35°	1153.6	1160.4	1159.9	1158.9	1159.4
37.5°	1103.9	1110.6	1113.1	1111.1	1111.6
40°	1053.7	1059.5	1060.9	1061.4	1059.5
42.5°	998.1	1004.9	1010.2	1007.8	1004.9
45°	940.7	947.9	952.7	951.3	947.9
47.5°	881.3	888.0	894.8	892.4	889.0
50°	820.4	827.2	833.0	832.0	826.2
52.5°	758.1	765.9	771.2	769.2	761.5
55°	694.9	701.2	706.0	705.0	695.8
57.5°	626.3	634.5	636.9	635.5	628.7
60°	561.6	566.9	569.3	567.4	559.7
62.5°	492.5	496.9	498.8	498.3	493.0
65°	423.5	426.9	427.8	426.9	423.0
67.5°	352.5	357.3	357.8	357.8	354.0
70°	288.3	289.7	288.3	292.1	286.4
72.5°	226.0	227.0	226.0	226.0	223.6
75°	170.9	171.4	170.9	171.4	169.0
77.5°	123.6	124.6	122.7	124.1	121.7
80°	84.0	84.0	83.1	83.5	82.6
82.5°	52.2	53.1	51.7	51.7	51.2
85°	27.5	27.5	27.5	28.0	28.0
87.5°	9.7	9.7	10.1	10.1	9.7
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)