

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: P505929

Luminaire Tested: **14PD-40-PR1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505929
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-L850
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

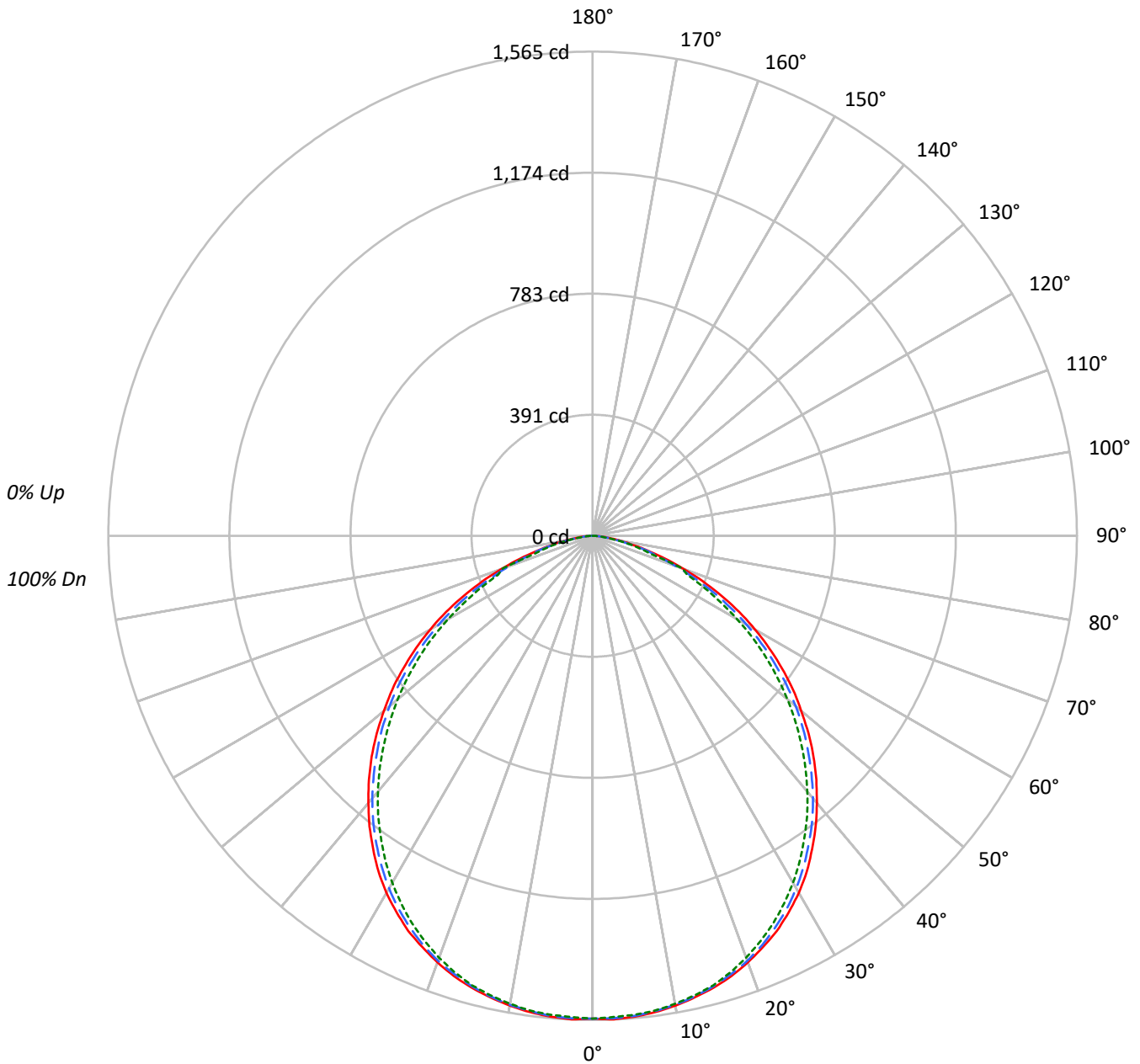
Lumens per Lamp: N/A
Luminaire Lumens: 4017.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P505929

CATALOG NUMBER: 14PD-40-PR1-L850

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°	4200	4200	4200
5°	4214	4208	4197
10°	4214	4206	4198
15°	4213	4200	4191
20°	4202	4186	4155
25°	4185	4148	4102
30°	4141	4089	4024
35°	4061	4000	3919
40°	3960	3892	3791
45°	3843	3748	3631
50°	3683	3586	3440
55°	3504	3366	3206
60°	3262	3091	2900
65°	2929	2722	2545
70°	2463	2245	2427
75°	1897	1825	1640
80°	1365	1223	1162
85°	837	716	645



TEST NUMBER: P505929

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.7
10°-20°	425.1	10.6
20°-30°	642.1	16.0
30°-40°	759.6	18.9
40°-50°	757.4	18.9
50°-60°	639.8	15.9
60°-70°	426.3	10.6
70°-80°	185.2	4.6
80°-90°	33.6	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°	1215.1	30.2
0°-40°	1974.7	49.2
0°-60°	3371.9	83.9
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1560	1554	1558	1556	1554	148
15°	1512	1505	1508	1505	1504	427
25°	1409	1400	1397	1385	1382	649
35°	1236	1228	1218	1201	1193	773
45°	1010	1000	985	964	954	778
55°	747	741	717	694	683	667
65°	460	455	428	409	400	455
75°	182	179	176	169	158	199
85°	27	28	23	22	21	37
90°	0	0	0	0	0	



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CATALOG NUMBER: 14PD-40-PR1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.9	1560.9	1560.9	1560.9	1560.9
2.5°	1564.8	1557.8	1560.9	1560.9	1557.0
5°	1560.1	1553.9	1557.8	1556.3	1553.9
7.5°	1553.2	1547.0	1549.3	1548.5	1547.8
10°	1542.3	1536.2	1539.3	1537.7	1536.2
12.5°	1528.4	1522.2	1525.3	1523.0	1521.5
15°	1512.2	1505.2	1507.6	1505.2	1504.5
17.5°	1492.1	1485.1	1485.9	1482.8	1479.7
20°	1467.4	1461.2	1461.9	1454.2	1451.1
22.5°	1438.7	1432.6	1431.8	1421.7	1417.9
25°	1409.4	1400.1	1397.0	1384.6	1381.5
27.5°	1372.3	1363.8	1359.1	1346.0	1339.8
30°	1332.8	1323.6	1315.8	1301.1	1294.9
32.5°	1288.0	1278.7	1268.7	1253.2	1246.2
35°	1236.2	1227.7	1217.6	1201.4	1192.9
37.5°	1184.4	1175.1	1165.1	1145.7	1138.8
40°	1127.2	1118.7	1107.9	1087.0	1079.3
42.5°	1070.0	1059.9	1046.8	1026.7	1018.2
45°	1009.7	1000.4	984.9	964.1	954.0
47.5°	946.3	938.5	922.3	899.9	889.1
50°	879.8	873.6	856.6	831.9	821.8
52.5°	816.4	807.9	788.6	763.8	753.0
55°	746.8	741.4	717.4	694.2	683.4
57.5°	677.2	670.3	646.3	623.1	613.1
60°	606.1	599.9	574.4	551.2	538.9
62.5°	534.2	527.3	500.2	479.3	467.7
65°	460.0	454.6	427.5	409.0	399.7
67.5°	385.8	381.9	353.3	337.8	330.9
70°	313.1	307.7	285.3	279.1	308.5
72.5°	245.8	238.9	219.6	209.5	201.8
75°	182.5	178.6	175.5	169.3	157.7
77.5°	128.3	127.6	116.7	108.2	116.7
80°	88.1	91.2	78.9	71.9	75.0
82.5°	54.1	60.3	47.2	41.7	40.2
85°	27.1	27.8	23.2	21.6	20.9
87.5°	10.1	11.6	10.1	8.5	8.5
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)