

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: P505918

Luminaire Tested: **14PD-40-PL1-L835**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505918
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-L835
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

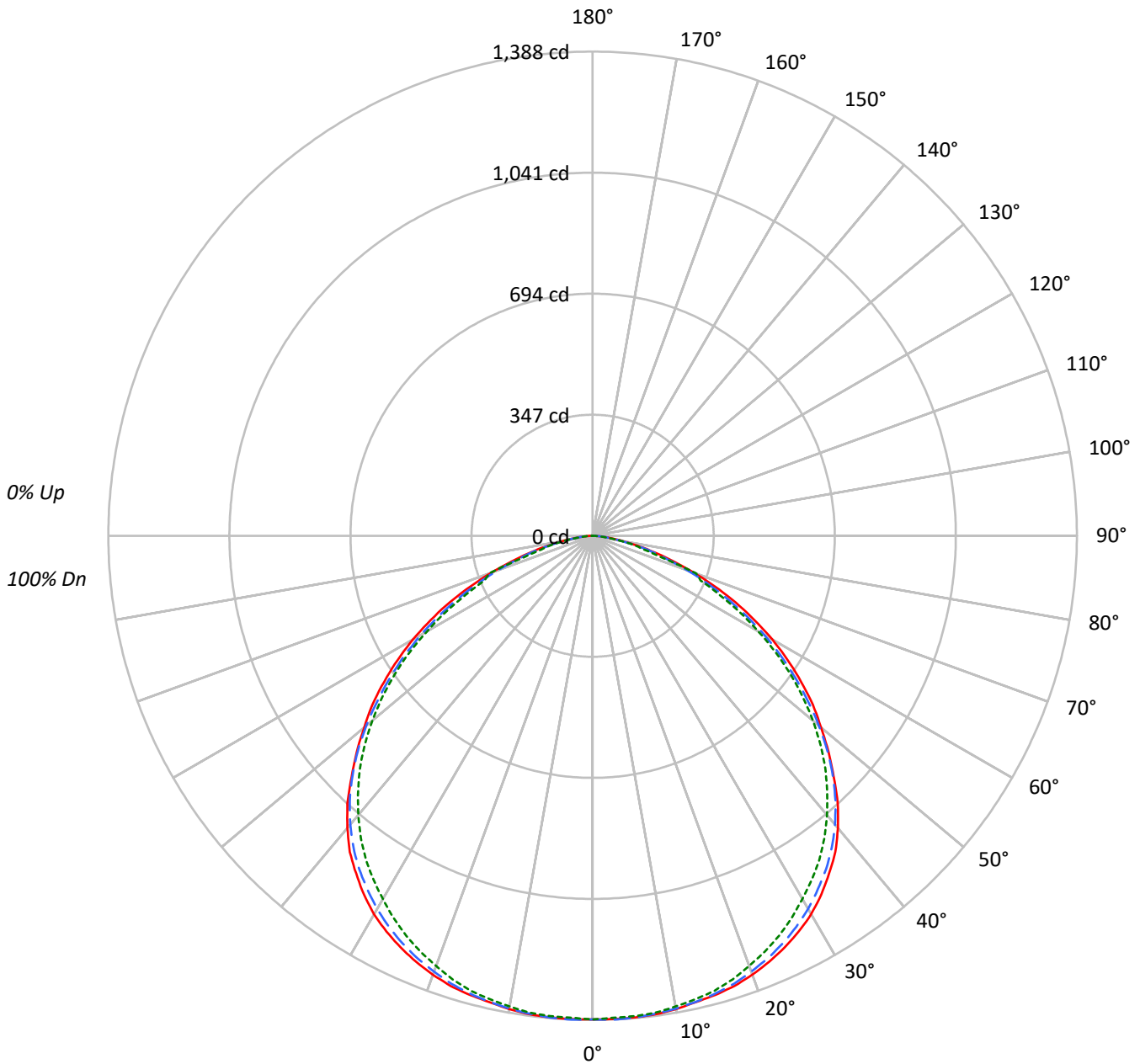
Lumens per Lamp: N/A
Luminaire Lumens: 3854.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	3732	3732	3732
5°	3744	3746	3734
10°	3764	3760	3744
15°	3796	3785	3762
20°	3834	3808	3757
25°	3866	3828	3756
30°	3892	3838	3736
35°	3883	3833	3722
40°	3841	3796	3670
45°	3718	3707	3588
50°	3577	3545	3450
55°	3423	3323	3248
60°	3197	3053	2951
65°	2880	2701	2555
70°	2408	2259	2481
75°	1901	1829	1583
80°	1368	1215	1240
85°	871	729	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.4
10°-20°	383.2	9.9
20°-30°	592.6	15.4
30°-40°	725.2	18.8
40°-50°	743.5	19.3
50°-60°	633.2	16.4
60°-70°	423.1	11.0
70°-80°	187.5	4.9
80°-90°	33.9	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°	1107.6	28.7
0°-40°	1832.9	47.6
0°-60°	3209.6	83.3
0°-90°	3854.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3854.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1386	1383	1387	1386	1382	132
15°	1362	1358	1359	1355	1350	385
25°	1302	1298	1289	1272	1265	600
35°	1182	1179	1167	1141	1133	739
45°	977	980	974	952	943	754
55°	730	726	708	694	692	651
65°	452	448	424	405	401	446
75°	183	185	176	177	152	198
85°	28	27	24	23	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1386.7	1384.4	1388.3	1389.8	1382.9
5°	1386.0	1382.9	1386.7	1386.0	1382.2
7.5°	1383.7	1378.4	1382.2	1380.6	1379.1
10°	1377.6	1373.0	1376.1	1373.8	1370.0
12.5°	1369.2	1366.2	1368.5	1366.2	1360.8
15°	1362.4	1357.8	1358.6	1354.7	1350.2
17.5°	1353.2	1346.4	1346.4	1338.8	1333.4
20°	1338.8	1332.7	1329.6	1319.0	1312.1
22.5°	1322.0	1317.4	1311.3	1297.6	1290.0
25°	1302.2	1297.6	1289.3	1272.5	1264.9
27.5°	1279.4	1273.3	1264.1	1244.3	1235.2
30°	1252.7	1245.1	1235.2	1213.1	1202.4
32.5°	1220.0	1214.6	1201.7	1178.8	1168.9
35°	1181.9	1178.8	1166.7	1140.8	1133.1
37.5°	1143.0	1137.0	1126.3	1098.9	1091.3
40°	1093.5	1089.7	1080.6	1053.9	1044.8
42.5°	1040.2	1038.0	1030.3	1005.2	995.3
45°	977.0	980.1	974.0	951.9	942.8
47.5°	916.9	915.3	913.1	893.3	885.7
50°	854.4	851.4	846.8	830.8	824.0
52.5°	795.8	789.7	777.5	763.8	759.2
55°	729.5	725.7	708.2	693.7	692.2
57.5°	662.5	660.2	638.9	622.2	622.2
60°	594.0	590.9	567.3	549.8	548.3
62.5°	522.4	520.1	495.8	476.0	476.7
65°	452.3	448.5	424.2	405.1	401.3
67.5°	379.2	377.7	354.1	336.6	335.1
70°	306.1	306.1	287.1	271.9	315.3
72.5°	241.4	239.1	223.9	217.0	207.1
75°	182.8	185.0	175.9	176.7	152.3
77.5°	130.2	126.4	122.6	114.2	121.1
80°	88.3	86.1	78.4	76.2	80.0
82.5°	54.8	55.6	48.7	44.2	43.4
85°	28.2	27.4	23.6	22.8	22.1
87.5°	10.7	11.4	9.9	9.1	8.4
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)