

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: P505935

Luminaire Tested: **14PD-40-PW1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PW1-L830
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

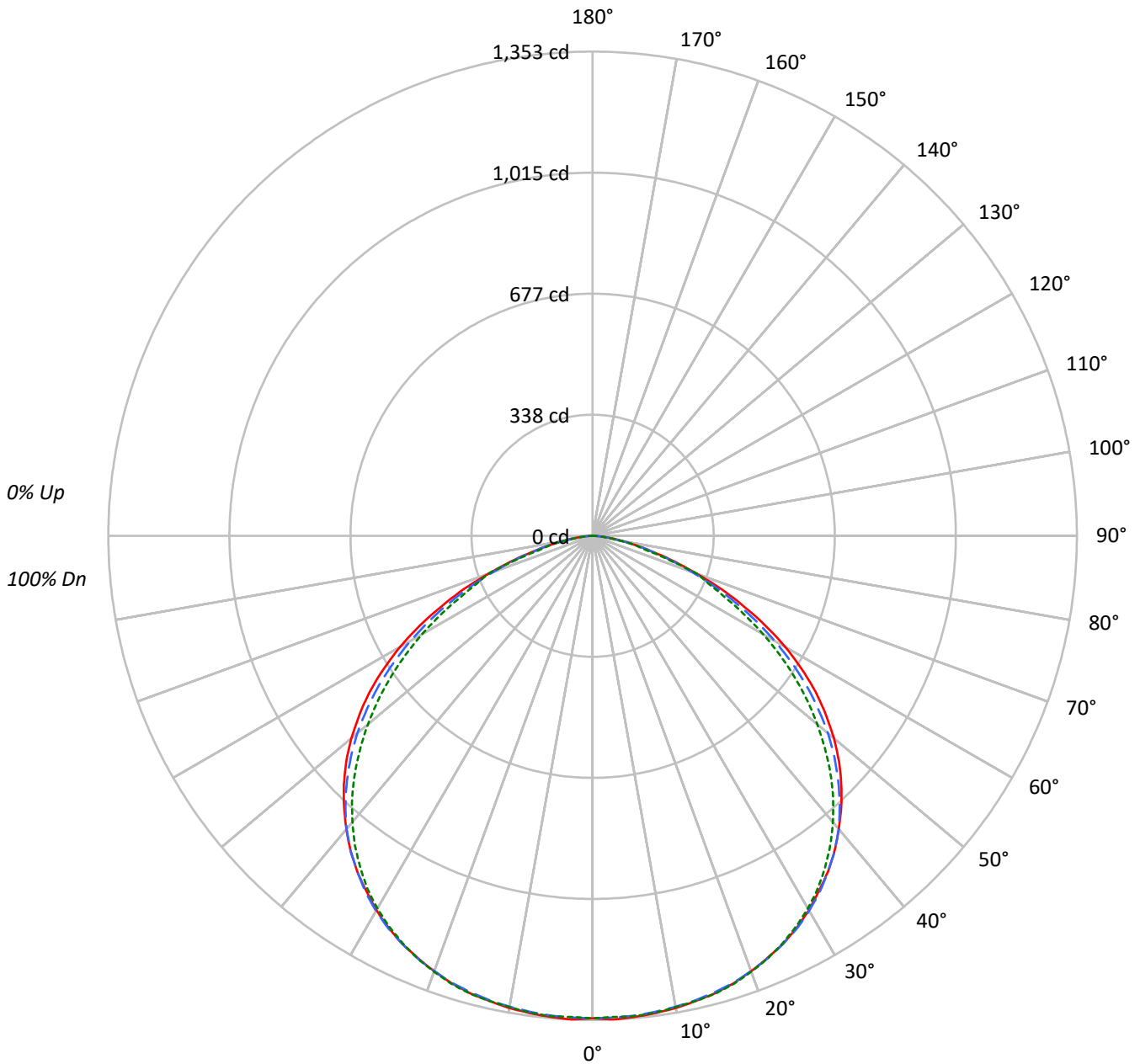
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42
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	97	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	77	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3628	3628	3628
5°	3646	3636	3640
10°	3661	3651	3653
15°	3686	3678	3690
20°	3708	3706	3713
25°	3736	3736	3730
30°	3754	3761	3737
35°	3766	3766	3718
40°	3759	3757	3668
45°	3739	3695	3577
50°	3682	3593	3430
55°	3569	3419	3232
60°	3343	3159	2962
65°	2960	2791	2606
70°	2417	2308	2435
75°	1823	1791	1608
80°	1311	1229	1229
85°	824	778	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	373.2	9.7
20°-30°	579.4	15.1
30°-40°	713.6	18.6
40°-50°	743.0	19.3
50°-60°	646.1	16.8
60°-70°	434.1	11.3
70°-80°	187.9	4.9
80°-90°	34.5	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°	1080.9	28.1
0°-40°	1794.5	46.7
0°-60°	3183.6	82.9
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1350	1342	1346	1349	1348	129
15°	1323	1314	1320	1325	1325	374
25°	1258	1252	1258	1258	1256	580
35°	1146	1143	1146	1136	1132	716
45°	982	979	971	949	940	757
55°	761	747	729	700	689	676
65°	465	457	438	418	409	460
75°	175	177	172	176	155	193
85°	27	27	25	22	22	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.3	1348.3	1348.3	1348.3	1348.3
2.5°	1352.9	1344.5	1347.6	1352.1	1346.0
5°	1349.8	1341.5	1346.0	1349.1	1347.6
7.5°	1345.3	1339.2	1341.5	1344.5	1343.8
10°	1339.9	1333.8	1336.1	1339.2	1336.9
12.5°	1331.6	1324.7	1329.3	1332.3	1331.6
15°	1323.2	1314.0	1320.1	1324.7	1324.7
17.5°	1311.0	1303.4	1309.5	1313.3	1312.5
20°	1295.0	1289.6	1294.2	1297.3	1296.5
22.5°	1276.7	1272.9	1278.2	1278.2	1278.2
25°	1258.4	1252.3	1258.4	1258.4	1256.1
27.5°	1234.8	1229.4	1237.0	1234.8	1230.9
30°	1208.1	1205.0	1210.4	1206.6	1202.7
32.5°	1176.8	1175.3	1180.6	1173.0	1170.0
35°	1146.3	1143.3	1146.3	1136.4	1131.9
37.5°	1110.5	1107.5	1110.5	1097.6	1090.7
40°	1070.1	1067.8	1069.4	1052.6	1044.2
42.5°	1028.2	1025.9	1022.1	1001.5	994.7
45°	982.5	979.4	971.0	948.9	939.8
47.5°	933.7	928.4	916.2	892.5	880.3
50°	879.6	872.0	858.2	832.3	819.4
52.5°	820.9	811.7	794.2	768.3	756.1
55°	760.7	747.0	728.7	699.7	689.0
57.5°	692.1	677.6	658.5	631.9	619.7
60°	621.2	606.7	586.9	562.5	550.3
62.5°	545.7	532.8	513.0	490.1	479.4
65°	464.9	456.6	438.3	417.7	409.3
67.5°	388.7	380.3	365.1	347.6	350.6
70°	307.2	306.4	293.4	281.3	309.5
72.5°	239.3	237.8	230.9	224.8	223.3
75°	175.3	176.8	172.3	176.1	154.7
77.5°	123.5	125.0	124.2	113.6	118.9
80°	84.6	84.6	79.3	75.5	79.3
82.5°	51.1	61.0	54.9	45.0	43.4
85°	26.7	27.4	25.2	22.1	22.1
87.5°	9.9	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)