

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: P505917

Luminaire Tested: **14PD-40-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505917
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-L830
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

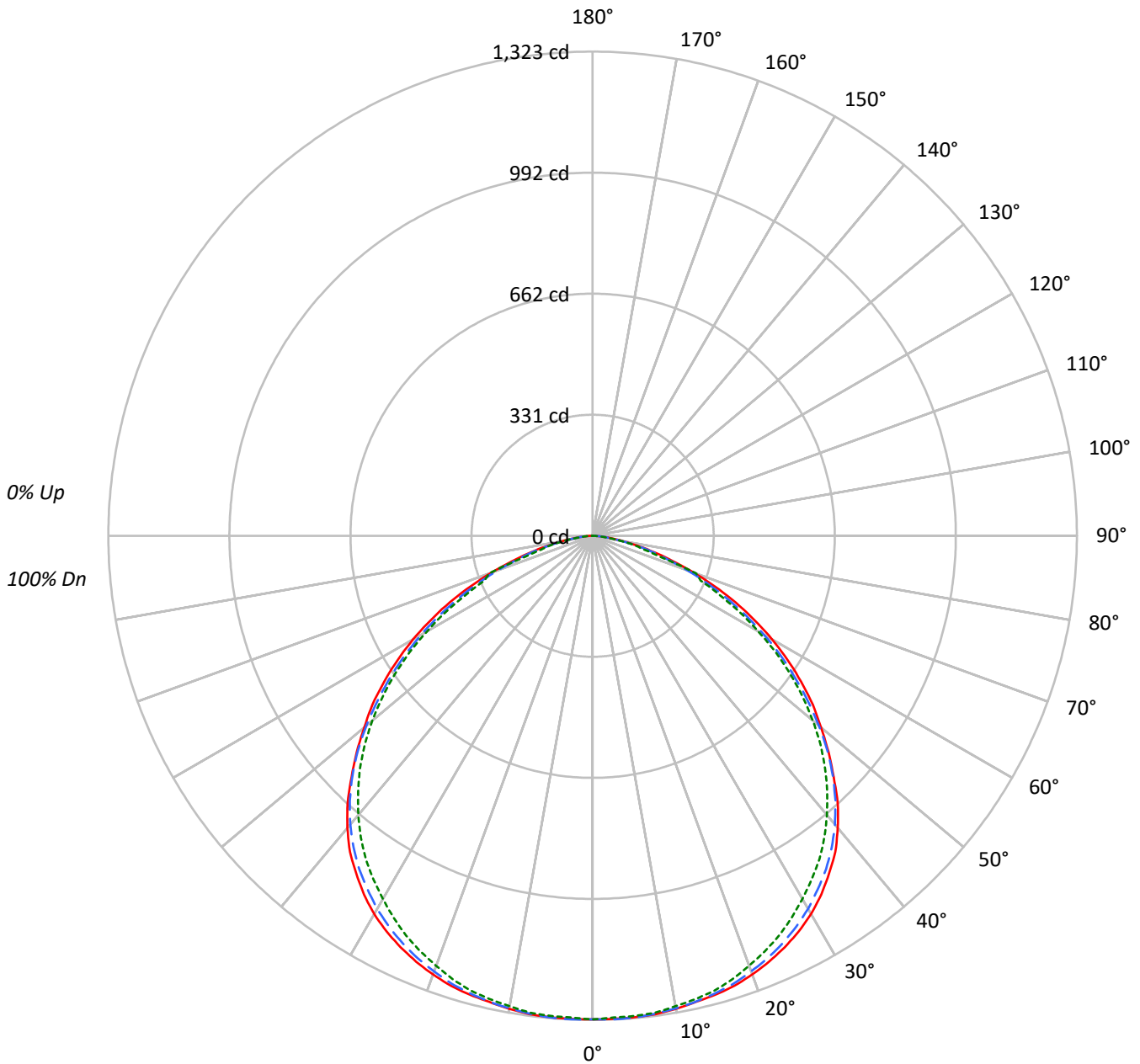
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.5 lumens
Efficiency: N/A
Efficacy: 97.2 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°	3556	3556	3556
5°	3567	3569	3558
10°	3587	3583	3567
15°	3617	3606	3584
20°	3653	3628	3580
25°	3684	3648	3579
30°	3709	3657	3560
35°	3700	3652	3547
40°	3660	3617	3497
45°	3543	3532	3419
50°	3409	3378	3287
55°	3262	3166	3095
60°	3046	2909	2812
65°	2744	2574	2435
70°	2295	2153	2364
75°	1811	1743	1509
80°	1305	1158	1181
85°	827	695	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.4
10°-20°	365.2	9.9
20°-30°	564.6	15.4
30°-40°	691.0	18.8
40°-50°	708.4	19.3
50°-60°	603.4	16.4
60°-70°	403.2	11.0
70°-80°	178.7	4.9
80°-90°	32.3	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°	1055.4	28.7
0°-40°	1746.5	47.6
0°-60°	3058.3	83.3
0°-90°	3672.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1321	1318	1321	1321	1317	126
15°	1298	1294	1294	1291	1286	367
25°	1241	1236	1228	1212	1205	572
35°	1126	1123	1112	1087	1080	704
45°	931	934	928	907	898	719
55°	695	692	675	661	660	620
65°	431	427	404	386	382	425
75°	174	176	168	168	145	189
85°	27	26	22	22	21	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1321.4	1319.2	1322.8	1324.3	1317.7
5°	1320.6	1317.7	1321.4	1320.6	1317.0
7.5°	1318.5	1313.4	1317.0	1315.6	1314.1
10°	1312.7	1308.3	1311.2	1309.0	1305.4
12.5°	1304.7	1301.8	1304.0	1301.8	1296.7
15°	1298.2	1293.8	1294.5	1290.9	1286.5
17.5°	1289.4	1282.9	1282.9	1275.7	1270.6
20°	1275.7	1269.9	1266.9	1256.8	1250.3
22.5°	1259.7	1255.3	1249.5	1236.5	1229.2
25°	1240.8	1236.5	1228.5	1212.5	1205.3
27.5°	1219.1	1213.3	1204.5	1185.7	1177.0
30°	1193.7	1186.4	1177.0	1155.9	1145.8
32.5°	1162.5	1157.4	1145.0	1123.3	1113.8
35°	1126.2	1123.3	1111.7	1087.0	1079.7
37.5°	1089.2	1083.4	1073.2	1047.1	1039.8
40°	1042.0	1038.4	1029.7	1004.3	995.6
42.5°	991.2	989.0	981.8	957.8	948.4
45°	931.0	933.9	928.1	907.0	898.3
47.5°	873.7	872.2	870.0	851.2	843.9
50°	814.2	811.3	806.9	791.7	785.1
52.5°	758.3	752.5	740.9	727.8	723.5
55°	695.2	691.5	674.8	661.0	659.6
57.5°	631.3	629.1	608.8	592.8	592.8
60°	566.0	563.1	540.6	523.9	522.5
62.5°	497.8	495.6	472.4	453.5	454.2
65°	431.0	427.4	404.2	386.0	382.4
67.5°	361.4	359.9	337.4	320.7	319.3
70°	291.7	291.7	273.6	259.0	300.4
72.5°	230.0	227.8	213.3	206.8	197.4
75°	174.2	176.3	167.6	168.3	145.1
77.5°	124.1	120.5	116.8	108.8	115.4
80°	84.2	82.0	74.7	72.6	76.2
82.5°	52.2	53.0	46.4	42.1	41.4
85°	26.8	26.1	22.5	21.8	21.0
87.5°	10.2	10.9	9.4	8.7	8.0
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)