

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: P505944

Luminaire Tested: **14PD-45-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505944
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-45-PL1-L830
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

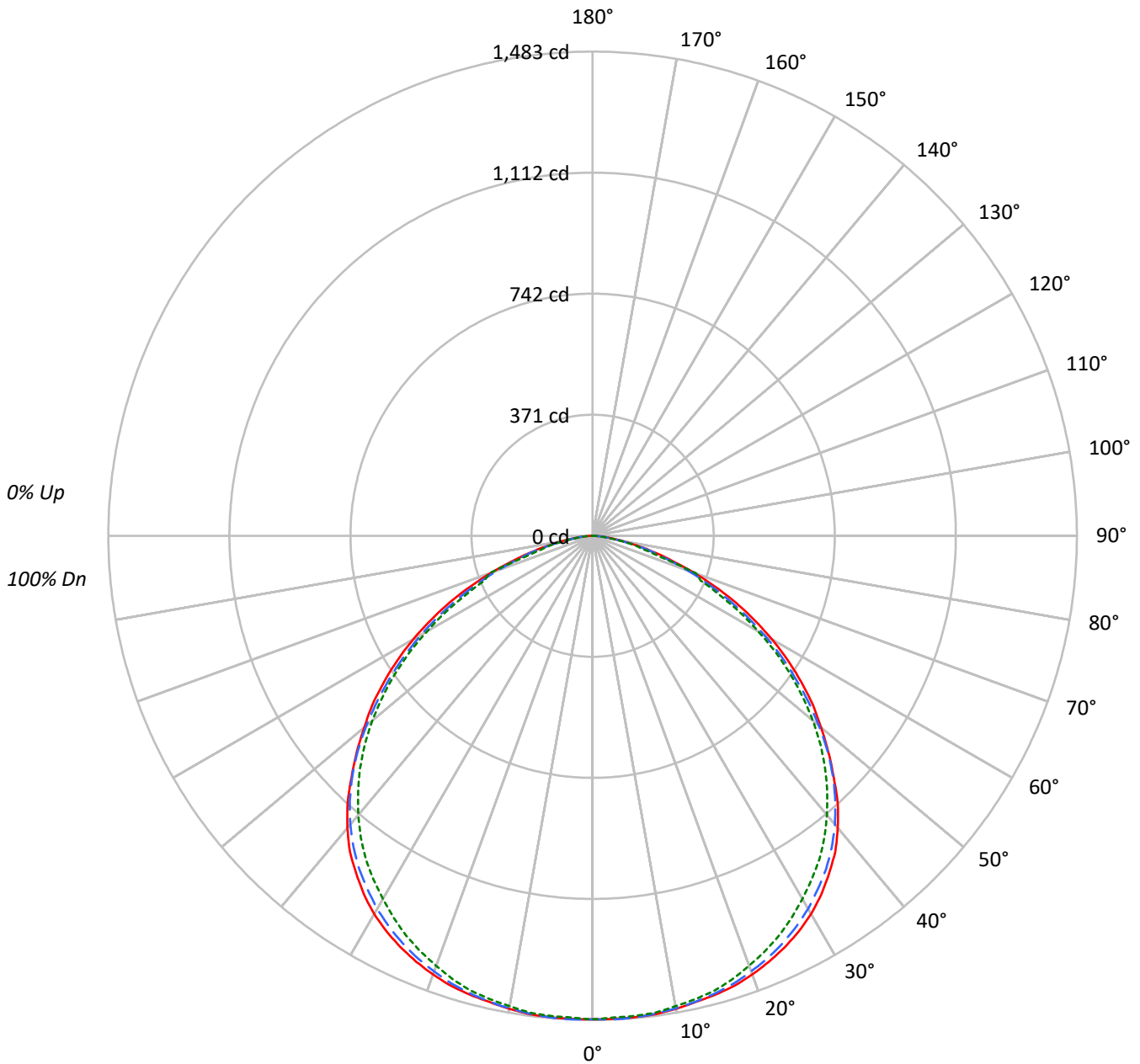
Lumens per Lamp: N/A
Luminaire Lumens: 4116.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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°	3986	3986	3986
5°	3999	4001	3988
10°	4021	4016	3998
15°	4054	4042	4018
20°	4095	4067	4013
25°	4130	4089	4011
30°	4158	4099	3991
35°	4147	4094	3976
40°	4103	4055	3920
45°	3971	3959	3832
50°	3821	3787	3684
55°	3656	3549	3469
60°	3414	3261	3152
65°	3076	2884	2729
70°	2573	2412	2649
75°	2030	1954	1692
80°	1463	1299	1323
85°	929	778	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.4
10°-20°	409.3	9.9
20°-30°	632.9	15.4
30°-40°	774.6	18.8
40°-50°	794.1	19.3
50°-60°	676.3	16.4
60°-70°	452.0	11.0
70°-80°	200.3	4.9
80°-90°	36.2	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°	1183.0	28.7
0°-40°	1957.7	47.6
0°-60°	3428.1	83.3
0°-90°	4116.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1480	1477	1481	1480	1476	141
15°	1455	1450	1451	1447	1442	411
25°	1391	1386	1377	1359	1351	641
35°	1262	1259	1246	1218	1210	789
45°	1044	1047	1040	1017	1007	805
55°	779	775	756	741	739	695
65°	483	479	453	433	429	476
75°	195	198	188	189	163	211
85°	30	29	25	24	24	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1481.1	1478.7	1482.8	1484.4	1477.1
5°	1480.3	1477.1	1481.1	1480.3	1476.3
7.5°	1477.9	1472.2	1476.3	1474.6	1473.0
10°	1471.4	1466.5	1469.8	1467.3	1463.2
12.5°	1462.4	1459.2	1461.6	1459.2	1453.5
15°	1455.1	1450.2	1451.0	1447.0	1442.1
17.5°	1445.4	1438.0	1438.0	1429.9	1424.2
20°	1429.9	1423.4	1420.1	1408.8	1401.4
22.5°	1412.0	1407.1	1400.6	1386.0	1377.8
25°	1390.9	1386.0	1377.0	1359.1	1351.0
27.5°	1366.5	1359.9	1350.2	1329.0	1319.3
30°	1338.0	1329.9	1319.3	1295.7	1284.3
32.5°	1303.0	1297.3	1283.5	1259.1	1248.5
35°	1262.3	1259.1	1246.1	1218.4	1210.3
37.5°	1220.9	1214.4	1203.0	1173.7	1165.6
40°	1168.0	1163.9	1154.2	1125.7	1115.9
42.5°	1111.1	1108.6	1100.5	1073.6	1063.1
45°	1043.5	1046.8	1040.3	1016.7	1006.9
47.5°	979.3	977.7	975.2	954.1	945.9
50°	912.6	909.3	904.5	887.4	880.1
52.5°	850.0	843.5	830.4	815.8	810.9
55°	779.2	775.1	756.4	741.0	739.4
57.5°	707.6	705.2	682.4	664.5	664.5
60°	634.4	631.2	606.0	587.3	585.6
62.5°	558.0	555.5	529.5	508.4	509.2
65°	483.1	479.1	453.0	432.7	428.6
67.5°	405.1	403.4	378.2	359.5	357.9
70°	327.0	327.0	306.6	290.4	336.7
72.5°	257.8	255.4	239.1	231.8	221.2
75°	195.2	197.6	187.9	188.7	162.7
77.5°	139.1	135.0	131.0	122.0	129.3
80°	94.4	91.9	83.8	81.3	85.4
82.5°	58.6	59.4	52.1	47.2	46.4
85°	30.1	29.3	25.2	24.4	23.6
87.5°	11.4	12.2	10.6	9.8	8.9
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)