

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: P506646

Luminaire Tested: **24PD-45-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PL1-L830
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

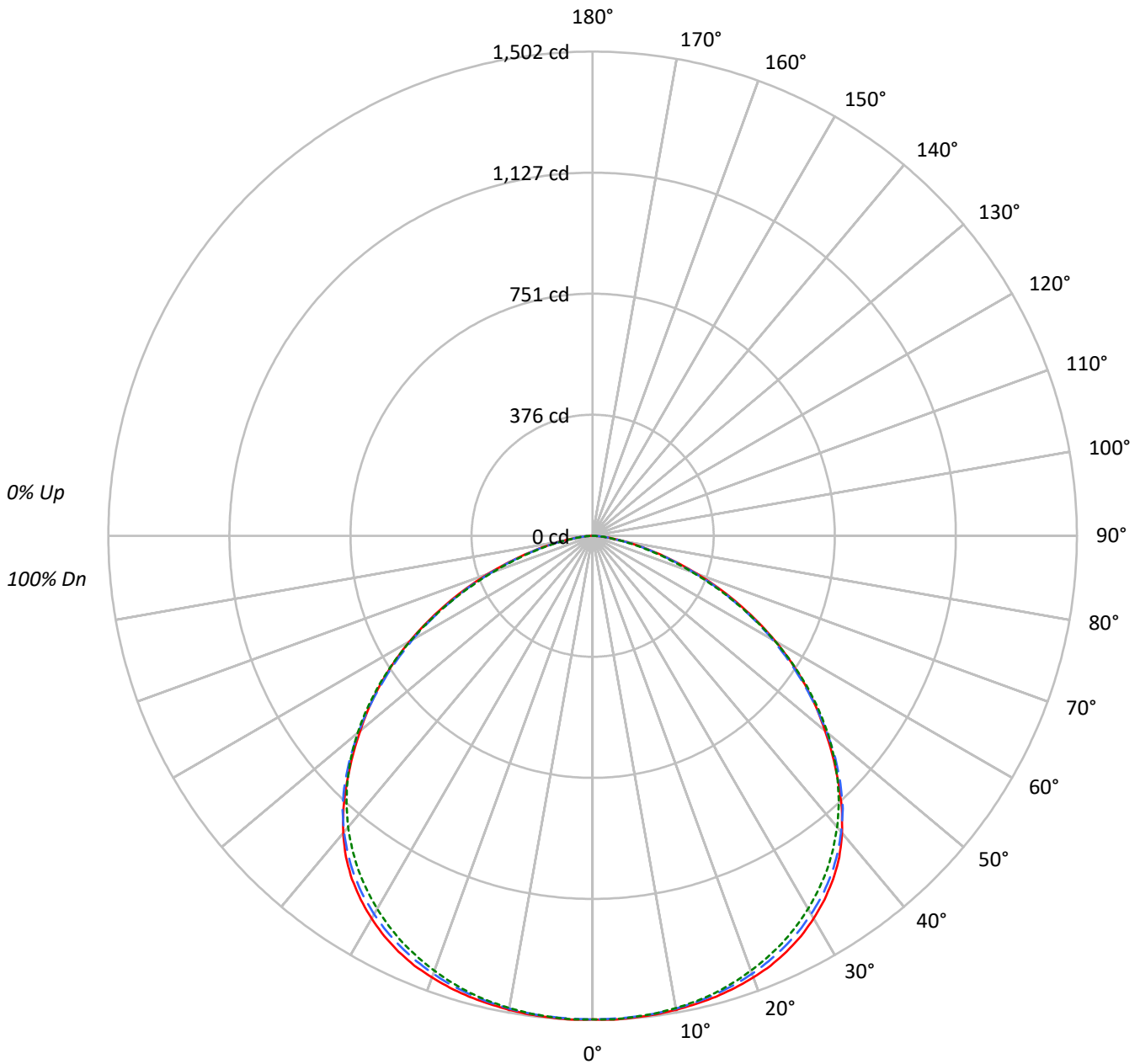
Lumens per Lamp: N/A
Luminaire Lumens: 4303.8 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	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	48	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	33	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	53	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°	2019	2019	2019
5°	2026	2023	2024
10°	2040	2035	2033
15°	2062	2051	2045
20°	2088	2070	2056
25°	2113	2089	2068
30°	2130	2106	2076
35°	2137	2115	2080
40°	2114	2106	2072
45°	2050	2068	2046
50°	1970	1985	1991
55°	1885	1871	1898
60°	1763	1735	1757
65°	1586	1555	1554
70°	1351	1320	1290
75°	1064	1040	997
80°	761	738	697
85°	451	445	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	3.3
10°-20°	416.4	9.7
20°-30°	649.1	15.1
30°-40°	803.3	18.7
40°-50°	832.7	19.3
50°-60°	717.0	16.7
60°-70°	486.4	11.3
70°-80°	217.1	5.0
80°-90°	39.1	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°	1208.3	28.1
0°-40°	2011.6	46.7
0°-60°	3561.3	82.7
0°-90°	4303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1500	1498	1498	1498	1498	143
15°	1480	1476	1473	1470	1468	419
25°	1424	1418	1407	1397	1393	656
35°	1301	1297	1288	1274	1266	812
45°	1077	1082	1087	1083	1075	830
55°	804	804	797	806	809	717
65°	498	500	488	483	488	493
75°	205	206	200	196	192	222
85°	29	30	29	29	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1502.3	1499.0	1499.5	1499.9	1501.5
5°	1500.3	1498.2	1497.8	1497.8	1498.2
7.5°	1497.8	1495.3	1494.9	1494.5	1494.5
10°	1493.3	1490.8	1489.2	1488.4	1487.9
12.5°	1487.1	1484.3	1482.2	1480.6	1479.3
15°	1480.1	1476.0	1472.7	1469.5	1468.2
17.5°	1470.3	1466.6	1460.8	1455.5	1453.4
20°	1458.0	1454.3	1446.0	1438.7	1435.8
22.5°	1443.6	1438.2	1428.0	1419.8	1415.6
25°	1423.5	1418.1	1407.4	1397.2	1393.1
27.5°	1400.0	1395.1	1383.6	1371.3	1366.3
30°	1370.9	1367.6	1355.3	1341.7	1336.4
32.5°	1338.4	1335.1	1324.4	1309.2	1303.1
35°	1301.0	1297.3	1287.9	1273.9	1266.5
37.5°	1256.7	1255.4	1246.4	1232.0	1225.0
40°	1203.7	1206.1	1199.2	1186.8	1179.8
42.5°	1143.3	1148.6	1148.6	1137.1	1130.1
45°	1077.1	1082.1	1087.0	1082.9	1075.1
47.5°	1009.4	1014.7	1020.4	1022.1	1015.5
50°	941.2	944.4	948.1	955.5	951.4
52.5°	873.4	874.6	873.4	883.2	882.4
55°	803.5	804.0	797.4	806.4	809.3
57.5°	730.8	732.1	721.4	726.3	732.5
60°	655.2	656.5	644.6	645.4	652.8
62.5°	577.2	578.8	566.9	564.0	570.6
65°	498.3	500.4	488.5	483.1	488.0
67.5°	419.8	422.3	411.2	404.6	405.9
70°	343.4	345.5	335.6	329.5	327.8
72.5°	270.7	272.8	265.0	258.8	255.9
75°	204.6	206.2	200.1	195.5	191.8
77.5°	147.1	148.3	143.4	140.1	136.4
80°	98.2	98.6	95.3	93.3	90.0
82.5°	58.7	59.2	57.1	56.3	53.8
85°	29.2	29.6	28.8	28.8	26.7
87.5°	10.3	9.9	10.3	10.3	9.0
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)