

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: P506654

Luminaire Tested: **24PD-45-PL1-L950**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506654  
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-L950  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

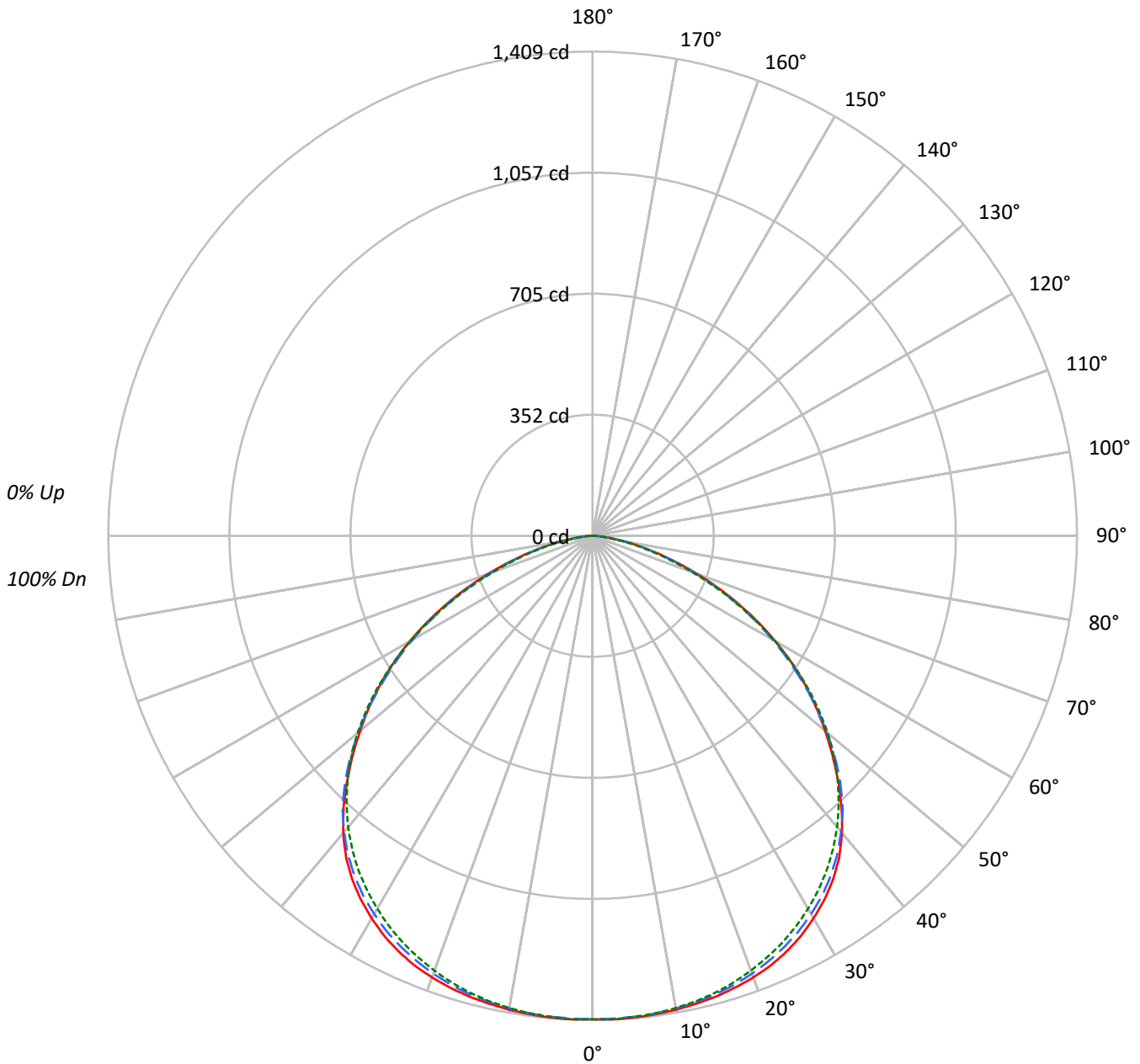
Lumens per Lamp: N/A  
Luminaire Lumens: 4036.3 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				20	
RC	80				70				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72				72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52				52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39				39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35				35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1893	1893	1893
5°	1900	1897	1898
10°	1913	1908	1906
15°	1934	1924	1918
20°	1958	1942	1928
25°	1982	1960	1939
30°	1997	1975	1947
35°	2004	1984	1951
40°	1983	1975	1943
45°	1922	1940	1918
50°	1847	1861	1868
55°	1768	1754	1780
60°	1654	1627	1647
65°	1488	1458	1457
70°	1267	1238	1209
75°	998	975	935
80°	714	693	654
85°	423	417	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.9	3.3
10°-20°	390.5	9.7
20°-30°	608.8	15.1
30°-40°	753.3	18.7
40°-50°	780.9	19.3
50°-60°	672.4	16.7
60°-70°	456.2	11.3
70°-80°	203.6	5.0
80°-90°	36.6	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°	1133.2	28.1
0°-40°	1886.5	46.7
0°-60°	3339.8	82.7
0°-90°	4036.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1407	1405	1405	1405	1405	134
15°	1388	1384	1381	1378	1377	393
25°	1335	1330	1320	1310	1306	615
35°	1220	1217	1208	1195	1188	762
45°	1010	1015	1019	1016	1008	779
55°	754	754	748	756	759	672
65°	467	469	458	453	458	462
75°	192	193	188	183	180	208
85°	27	28	27	27	25	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.0	1407.0	1407.0	1407.0	1407.0
2.5°	1408.9	1405.8	1406.2	1406.6	1408.1
5°	1407.0	1405.1	1404.7	1404.7	1405.1
7.5°	1404.7	1402.4	1402.0	1401.6	1401.6
10°	1400.4	1398.1	1396.6	1395.8	1395.4
12.5°	1394.7	1392.0	1390.0	1388.5	1387.3
15°	1388.1	1384.3	1381.2	1378.1	1376.9
17.5°	1378.9	1375.4	1370.0	1365.0	1363.1
20°	1367.3	1363.8	1356.1	1349.2	1346.5
22.5°	1353.8	1348.8	1339.2	1331.5	1327.6
25°	1334.9	1329.9	1319.9	1310.3	1306.4
27.5°	1313.0	1308.4	1297.6	1286.0	1281.4
30°	1285.6	1282.5	1271.0	1258.3	1253.3
32.5°	1255.2	1252.1	1242.1	1227.8	1222.1
35°	1220.1	1216.7	1207.8	1194.7	1187.8
37.5°	1178.5	1177.4	1168.9	1155.4	1148.9
40°	1128.8	1131.1	1124.6	1113.0	1106.5
42.5°	1072.2	1077.2	1077.2	1066.4	1059.9
45°	1010.2	1014.8	1019.4	1015.6	1008.2
47.5°	946.6	951.6	957.0	958.5	952.4
50°	882.6	885.7	889.2	896.1	892.3
52.5°	819.1	820.2	819.1	828.3	827.5
55°	753.6	754.0	747.8	756.3	759.0
57.5°	685.4	686.5	676.5	681.1	686.9
60°	614.5	615.7	604.5	605.3	612.2
62.5°	541.3	542.8	531.7	529.0	535.1
65°	467.3	469.3	458.1	453.1	457.7
67.5°	393.7	396.1	385.7	379.5	380.6
70°	322.1	324.0	314.8	309.0	307.4
72.5°	253.9	255.8	248.5	242.7	240.0
75°	191.9	193.4	187.6	183.4	179.9
77.5°	137.9	139.1	134.5	131.4	127.9
80°	92.1	92.5	89.4	87.5	84.4
82.5°	55.1	55.5	53.6	52.8	50.5
85°	27.4	27.7	27.0	27.0	25.0
87.5°	9.6	9.2	9.6	9.6	8.5
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)