

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: P506647

Luminaire Tested: **24PD-45-PL1-L835**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506647
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-L835
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

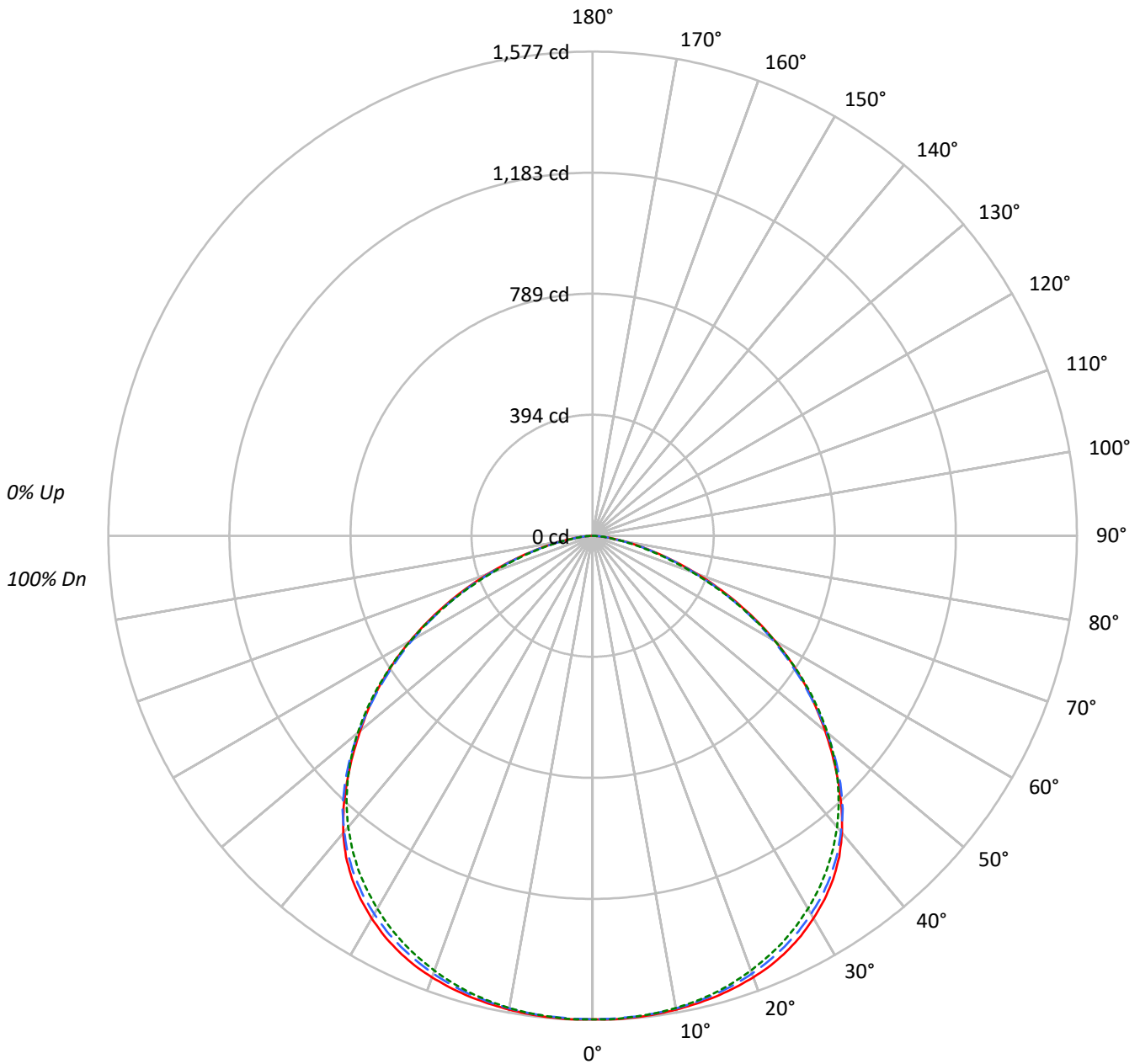
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.3 lumens
Efficiency: N/A
Efficacy: 136.9 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°	2119	2119	2119
5°	2127	2123	2124
10°	2141	2136	2134
15°	2164	2153	2147
20°	2191	2173	2158
25°	2218	2193	2171
30°	2236	2210	2179
35°	2243	2220	2183
40°	2219	2211	2175
45°	2151	2171	2147
50°	2068	2083	2090
55°	1978	1963	1993
60°	1851	1820	1844
65°	1665	1632	1631
70°	1418	1386	1354
75°	1116	1092	1047
80°	799	775	731
85°	472	466	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.3
10°-20°	437.1	9.7
20°-30°	681.3	15.1
30°-40°	843.1	18.7
40°-50°	874.0	19.3
50°-60°	752.5	16.7
60°-70°	510.6	11.3
70°-80°	227.8	5.0
80°-90°	41.0	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°	1268.3	28.1
0°-40°	2111.4	46.7
0°-60°	3737.9	82.7
0°-90°	4517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1575	1572	1572	1572	1572	150
15°	1554	1549	1546	1542	1541	439
25°	1494	1488	1477	1466	1462	689
35°	1366	1362	1352	1337	1329	852
45°	1131	1136	1141	1137	1128	871
55°	843	844	837	846	849	752
65°	523	525	513	507	512	517
75°	215	216	210	205	201	233
85°	31	31	30	30	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.7	1574.7	1574.7	1574.7	1574.7
2.5°	1576.8	1573.4	1573.8	1574.3	1576.0
5°	1574.7	1572.5	1572.1	1572.1	1572.5
7.5°	1572.1	1569.5	1569.1	1568.7	1568.7
10°	1567.4	1564.8	1563.1	1562.2	1561.8
12.5°	1560.9	1557.9	1555.7	1554.0	1552.7
15°	1553.6	1549.3	1545.8	1542.4	1541.1
17.5°	1543.2	1539.3	1533.3	1527.7	1525.5
20°	1530.3	1526.4	1517.8	1510.0	1507.0
22.5°	1515.2	1509.6	1498.8	1490.2	1485.9
25°	1494.1	1488.5	1477.2	1466.5	1462.2
27.5°	1469.5	1464.3	1452.2	1439.3	1434.1
30°	1438.9	1435.4	1422.5	1408.3	1402.6
32.5°	1404.8	1401.4	1390.1	1374.2	1367.7
35°	1365.6	1361.7	1351.8	1337.1	1329.3
37.5°	1319.0	1317.7	1308.2	1293.1	1285.8
40°	1263.4	1266.0	1258.6	1245.7	1238.4
42.5°	1200.0	1205.6	1205.6	1193.5	1186.2
45°	1130.6	1135.7	1140.9	1136.6	1128.4
47.5°	1059.4	1065.0	1071.1	1072.8	1065.9
50°	987.8	991.3	995.2	1002.9	998.6
52.5°	916.7	918.0	916.7	927.1	926.2
55°	843.4	843.8	836.9	846.4	849.4
57.5°	767.1	768.4	757.2	762.3	768.8
60°	687.7	689.0	676.5	677.4	685.2
62.5°	605.8	607.5	595.0	592.0	598.9
65°	523.0	525.2	512.7	507.1	512.2
67.5°	440.7	443.3	431.6	424.7	426.0
70°	360.5	362.6	352.3	345.8	344.1
72.5°	284.2	286.3	278.1	271.6	268.6
75°	214.7	216.5	210.0	205.2	201.4
77.5°	154.4	155.7	150.5	147.0	143.2
80°	103.1	103.5	100.0	97.9	94.4
82.5°	61.7	62.1	59.9	59.1	56.5
85°	30.6	31.0	30.2	30.2	28.0
87.5°	10.8	10.3	10.8	10.8	9.5
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)