

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: P505945

Luminaire Tested: **14PD-45-PL1-L835**

Issue Date: 3/26/2021

Test Information

Test Method: LM-79-08
Report Number: P505945
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-L835
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

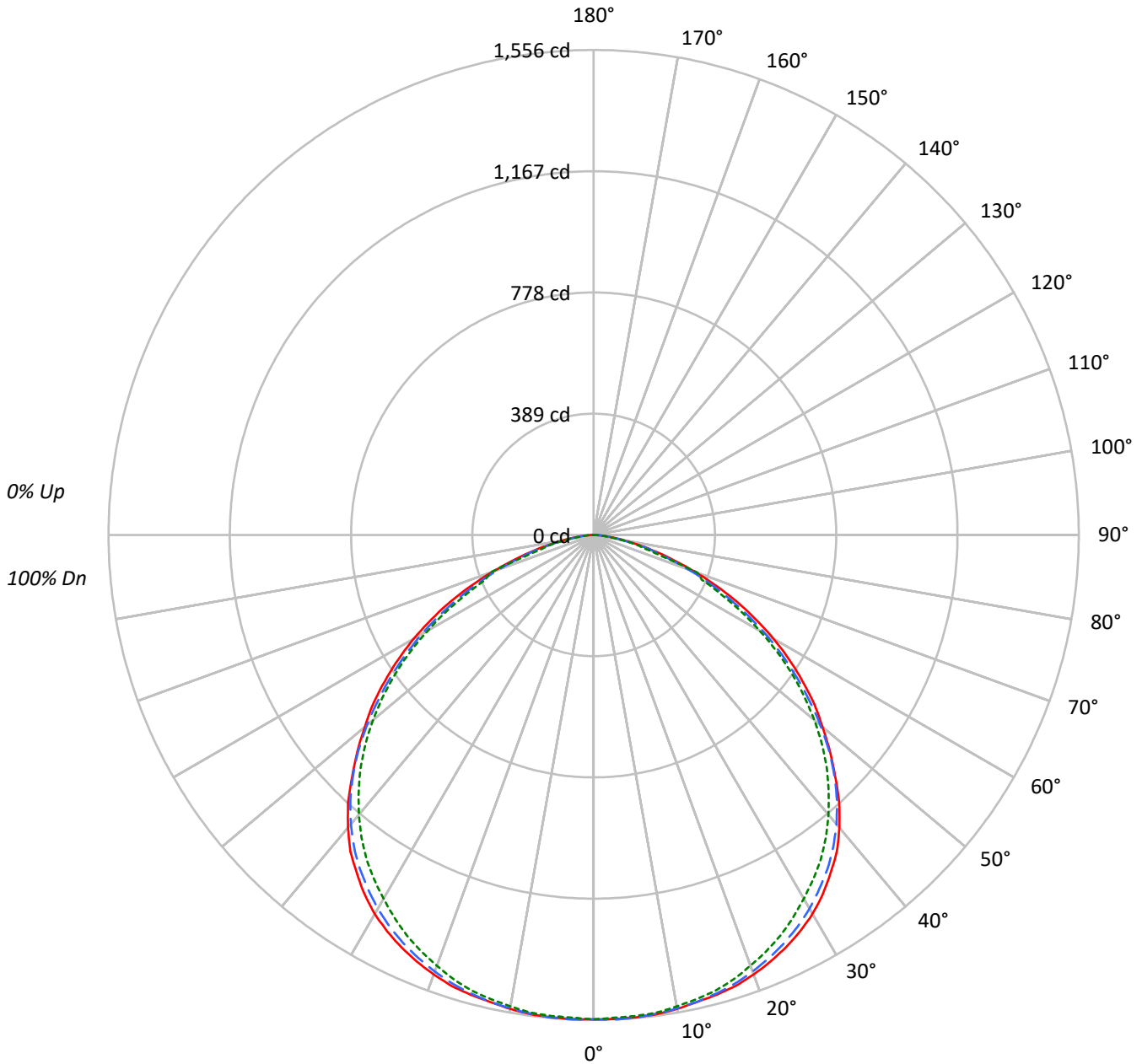
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.3 lumens
Efficiency: N/A
Efficacy: 100.7 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°	4183	4183	4183
5°	4197	4199	4185
10°	4220	4215	4196
15°	4254	4243	4216
20°	4298	4268	4212
25°	4334	4291	4210
30°	4363	4302	4188
35°	4352	4296	4173
40°	4306	4255	4114
45°	4168	4155	4022
50°	4010	3974	3867
55°	3837	3725	3640
60°	3583	3423	3308
65°	3229	3028	2865
70°	2700	2532	2781
75°	2130	2050	1775
80°	1534	1362	1389
85°	976	818	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.4
10°-20°	429.6	9.9
20°-30°	664.2	15.4
30°-40°	812.9	18.8
40°-50°	833.4	19.3
50°-60°	709.8	16.4
60°-70°	474.3	11.0
70°-80°	210.2	4.9
80°-90°	38.0	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°	1241.6	28.7
0°-40°	2054.5	47.6
0°-60°	3597.8	83.3
0°-90°	4320.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1554	1550	1554	1554	1549	148
15°	1527	1522	1523	1519	1514	432
25°	1460	1455	1445	1426	1418	673
35°	1325	1321	1308	1279	1270	828
45°	1095	1099	1092	1067	1057	845
55°	818	814	794	778	776	730
65°	507	503	476	454	450	500
75°	205	207	197	198	171	222
85°	32	31	26	26	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1554.5	1551.9	1556.2	1557.9	1550.2
5°	1553.6	1550.2	1554.5	1553.6	1549.3
7.5°	1551.0	1545.1	1549.3	1547.6	1545.9
10°	1544.2	1539.1	1542.5	1539.9	1535.7
12.5°	1534.8	1531.4	1534.0	1531.4	1525.4
15°	1527.1	1522.0	1522.9	1518.6	1513.5
17.5°	1516.9	1509.2	1509.2	1500.7	1494.7
20°	1500.7	1493.8	1490.4	1478.5	1470.8
22.5°	1481.9	1476.8	1469.9	1454.6	1446.0
25°	1459.7	1454.6	1445.2	1426.4	1417.9
27.5°	1434.1	1427.3	1417.0	1394.8	1384.6
30°	1404.2	1395.7	1384.6	1359.8	1347.9
32.5°	1367.5	1361.5	1347.0	1321.4	1310.3
35°	1324.8	1321.4	1307.8	1278.7	1270.2
37.5°	1281.3	1274.5	1262.5	1231.8	1223.2
40°	1225.8	1221.5	1211.3	1181.4	1171.2
42.5°	1166.1	1163.5	1155.0	1126.8	1115.7
45°	1095.2	1098.6	1091.8	1067.0	1056.8
47.5°	1027.8	1026.1	1023.5	1001.3	992.8
50°	957.8	954.4	949.2	931.3	923.6
52.5°	892.0	885.2	871.6	856.2	851.1
55°	817.8	813.5	793.9	777.7	775.9
57.5°	742.7	740.1	716.2	697.4	697.4
60°	665.8	662.4	636.0	616.3	614.6
62.5°	585.6	583.0	555.7	533.5	534.4
65°	507.1	502.8	475.5	454.1	449.9
67.5°	425.1	423.4	396.9	377.3	375.6
70°	343.2	343.2	321.8	304.7	353.4
72.5°	270.6	268.0	251.0	243.3	232.2
75°	204.9	207.4	197.2	198.0	170.7
77.5°	146.0	141.7	137.4	128.0	135.7
80°	99.0	96.5	87.9	85.4	89.6
82.5°	61.5	62.3	54.6	49.5	48.7
85°	31.6	30.7	26.5	25.6	24.8
87.5°	12.0	12.8	11.1	10.2	9.4
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)