

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: P505954

Luminaire Tested: **14PD-45-PR1-L835**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PR1-L835
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

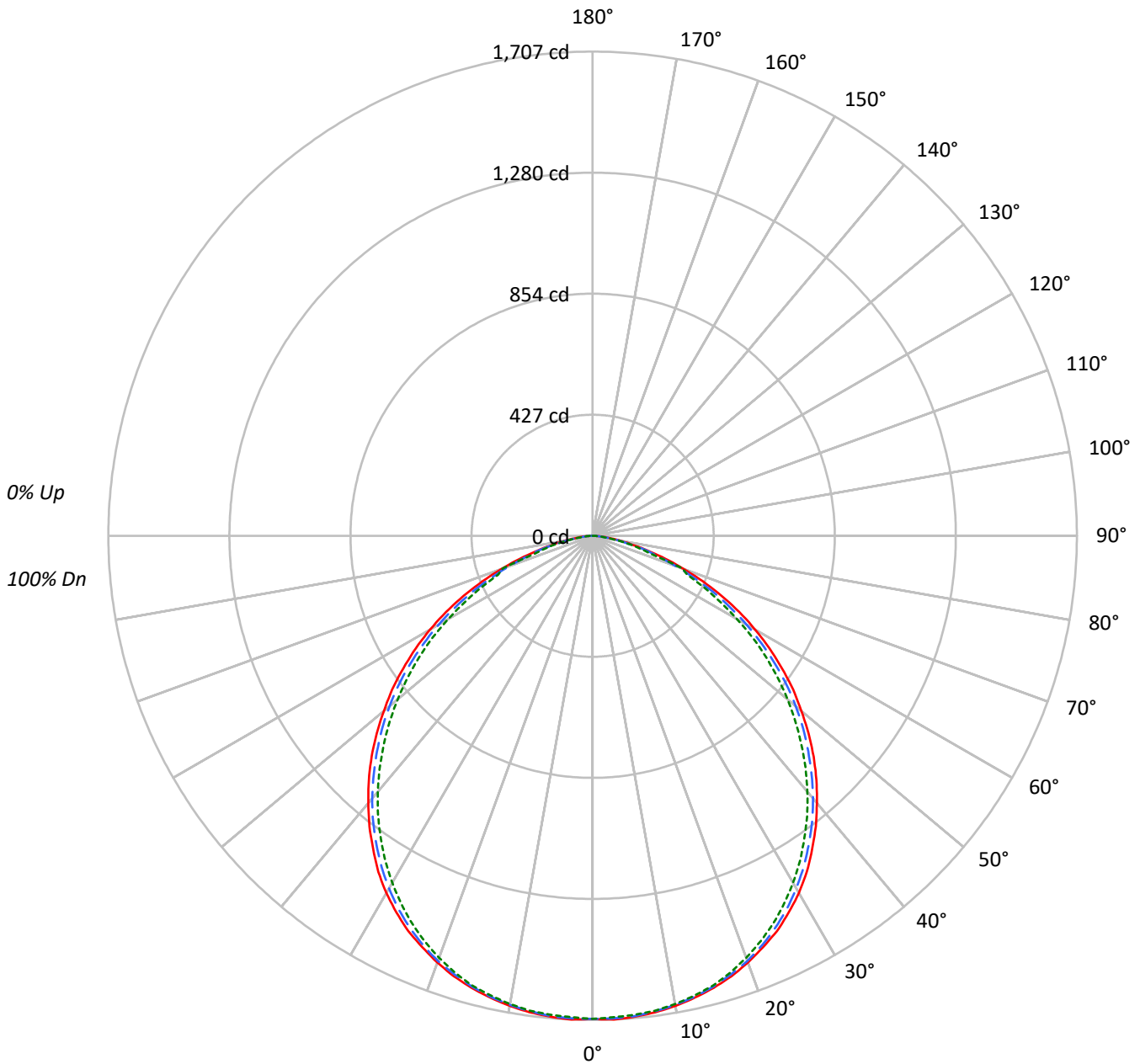
Lumens per Lamp: N/A
Luminaire Lumens: 4383.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4583	4583	4583
5°	4598	4591	4580
10°	4599	4589	4580
15°	4597	4583	4573
20°	4585	4568	4534
25°	4566	4526	4476
30°	4519	4461	4390
35°	4431	4365	4276
40°	4320	4246	4137
45°	4193	4090	3961
50°	4019	3913	3754
55°	3823	3673	3499
60°	3559	3373	3164
65°	3196	2970	2777
70°	2688	2449	2648
75°	2070	1991	1789
80°	1491	1333	1268
85°	911	781	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.7
10°-20°	463.8	10.6
20°-30°	700.5	16.0
30°-40°	828.8	18.9
40°-50°	826.4	18.9
50°-60°	698.1	15.9
60°-70°	465.1	10.6
70°-80°	202.1	4.6
80°-90°	36.7	0.8
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°	1325.8	30.2
0°-40°	2154.6	49.2
0°-60°	3679.1	83.9
0°-90°	4383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1702	1696	1700	1698	1696	162
15°	1650	1642	1645	1642	1642	466
25°	1538	1528	1524	1511	1507	708
35°	1349	1340	1329	1311	1302	844
45°	1102	1092	1075	1052	1041	848
55°	815	809	783	758	746	728
65°	502	496	466	446	436	496
75°	199	195	192	185	172	218
85°	30	30	25	24	23	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1707.3	1699.7	1703.1	1703.1	1698.9
5°	1702.3	1695.5	1699.7	1698.1	1695.5
7.5°	1694.7	1687.9	1690.5	1689.6	1688.8
10°	1682.9	1676.1	1679.5	1677.8	1676.1
12.5°	1667.7	1660.9	1664.3	1661.8	1660.1
15°	1650.0	1642.4	1644.9	1642.4	1641.5
17.5°	1628.0	1620.4	1621.3	1617.9	1614.5
20°	1601.0	1594.3	1595.1	1586.7	1583.3
22.5°	1569.8	1563.1	1562.2	1551.3	1547.1
25°	1537.8	1527.7	1524.3	1510.8	1507.4
27.5°	1497.3	1488.0	1482.9	1468.6	1461.9
30°	1454.3	1444.1	1435.7	1419.7	1412.9
32.5°	1405.3	1395.2	1384.3	1367.4	1359.8
35°	1348.8	1339.5	1328.6	1310.9	1301.6
37.5°	1292.3	1282.2	1271.2	1250.1	1242.5
40°	1229.9	1220.6	1208.8	1186.0	1177.6
42.5°	1167.5	1156.5	1142.2	1120.2	1110.9
45°	1101.7	1091.5	1074.7	1051.9	1040.9
47.5°	1032.5	1024.1	1006.3	981.9	970.1
50°	960.0	953.2	934.6	907.7	896.7
52.5°	890.8	881.5	860.4	833.4	821.6
55°	814.9	809.0	782.8	757.5	745.7
57.5°	738.9	731.4	705.2	679.9	668.9
60°	661.3	654.6	626.8	601.4	587.9
62.5°	582.9	575.3	545.8	523.0	510.3
65°	501.9	496.0	466.5	446.2	436.1
67.5°	420.9	416.7	385.5	368.6	361.0
70°	341.6	335.7	311.3	304.5	336.6
72.5°	268.2	260.7	239.6	228.6	220.2
75°	199.1	194.9	191.5	184.7	172.1
77.5°	140.0	139.2	127.4	118.1	127.4
80°	96.2	99.5	86.0	78.4	81.8
82.5°	59.0	65.8	51.5	45.6	43.9
85°	29.5	30.4	25.3	23.6	22.8
87.5°	11.0	12.7	11.0	9.3	9.3
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)