

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: P219980

Luminaire Tested: **R3-WD-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-4L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4592.7 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

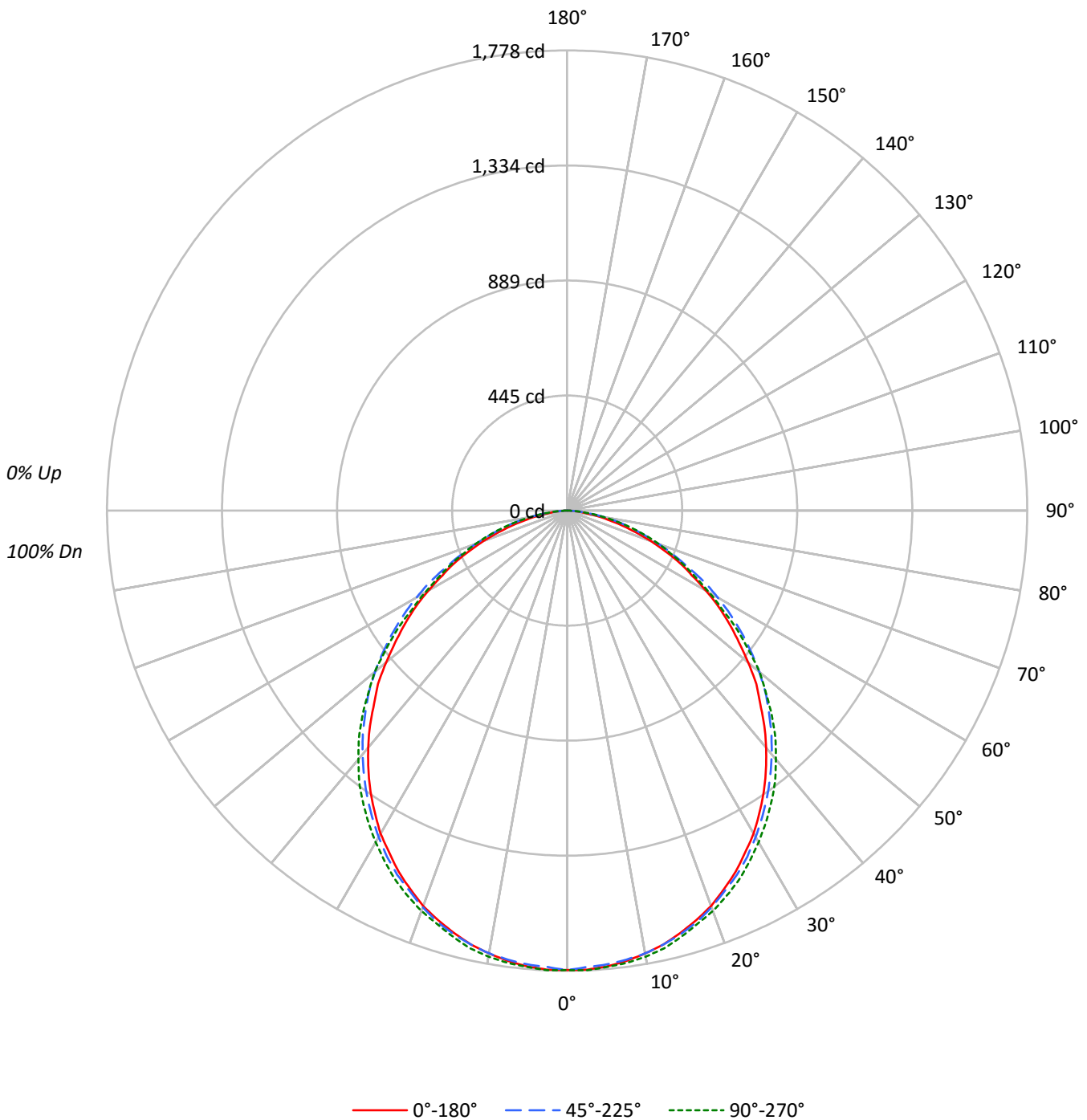
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	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	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4777	4777	4777
5°	4775	4754	4782
10°	4747	4747	4782
15°	4706	4720	4749
20°	4657	4671	4714
25°	4573	4610	4670
30°	4479	4526	4597
35°	4353	4428	4519
40°	4202	4317	4406
45°	4013	4196	4254
50°	3822	4055	4065
55°	3595	3856	3761
60°	3335	3620	3416
65°	3075	3269	3172
70°	2706	2945	2965
75°	2235	2655	2681
80°	1725	2233	2194
85°	1170	1562	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.7
10°-20°	478.7	10.4
20°-30°	716.4	15.6
30°-40°	844.1	18.4
40°-50°	844.6	18.4
50°-60°	717.2	15.6
60°-70°	500.6	10.9
70°-80°	263.6	5.7
80°-90°	59.5	1.3
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°	1363.0	29.7
0°-40°	2207.1	48.1
0°-60°	3769.0	82.1
0°-90°	4592.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1768	1768	1760	1770	1770	168
15°	1689	1694	1694	1704	1704	477
25°	1540	1548	1553	1573	1573	709
35°	1325	1333	1348	1371	1376	828
45°	1054	1072	1103	1120	1118	816
55°	766	794	822	817	802	685
65°	483	508	513	503	498	474
75°	215	243	255	258	258	231
85°	38	48	51	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.3	1775.3	1775.3	1775.3	1775.3
2.5°	1775.3	1772.7	1765.2	1775.3	1777.8
5°	1767.7	1767.7	1760.1	1770.2	1770.2
7.5°	1755.0	1757.6	1750.0	1762.6	1762.6
10°	1737.3	1739.9	1737.3	1750.0	1750.0
12.5°	1717.1	1719.6	1717.1	1729.8	1732.3
15°	1689.3	1694.3	1694.3	1704.5	1704.5
17.5°	1658.9	1664.0	1666.5	1674.1	1674.1
20°	1626.1	1631.1	1631.1	1643.8	1646.3
22.5°	1583.1	1590.7	1590.7	1610.9	1610.9
25°	1540.1	1547.7	1552.7	1573.0	1573.0
27.5°	1489.5	1497.1	1507.2	1527.4	1527.4
30°	1441.5	1444.0	1456.6	1471.8	1479.4
32.5°	1383.3	1390.9	1403.5	1426.3	1428.8
35°	1325.1	1332.7	1347.9	1370.7	1375.7
37.5°	1261.9	1269.5	1289.7	1317.5	1320.1
40°	1196.2	1203.7	1229.0	1256.9	1254.3
42.5°	1127.9	1138.0	1168.3	1188.6	1191.1
45°	1054.5	1072.2	1102.6	1120.3	1117.8
47.5°	991.3	1004.0	1039.4	1047.0	1041.9
50°	912.9	935.7	968.6	973.6	971.1
52.5°	837.1	859.8	895.2	895.2	882.6
55°	766.3	794.1	821.9	816.8	801.7
57.5°	695.4	718.2	748.5	733.4	710.6
60°	619.6	647.4	672.7	647.4	634.7
62.5°	543.7	581.6	596.8	569.0	561.4
65°	483.0	508.3	513.4	503.2	498.2
67.5°	409.7	442.6	442.6	437.5	432.4
70°	343.9	371.7	374.3	376.8	376.8
72.5°	275.6	308.5	311.1	318.6	316.1
75°	215.0	242.8	255.4	257.9	257.9
77.5°	159.3	182.1	199.8	199.8	197.3
80°	111.3	131.5	144.1	144.1	141.6
82.5°	68.3	86.0	96.1	93.6	93.6
85°	37.9	48.0	50.6	48.0	48.0
87.5°	15.2	17.7	15.2	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)