

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: P219975

Luminaire Tested: **R3-WD-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219975
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-4L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4541.2 lumens
Efficiency: N/A
Efficacy: 104.9 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

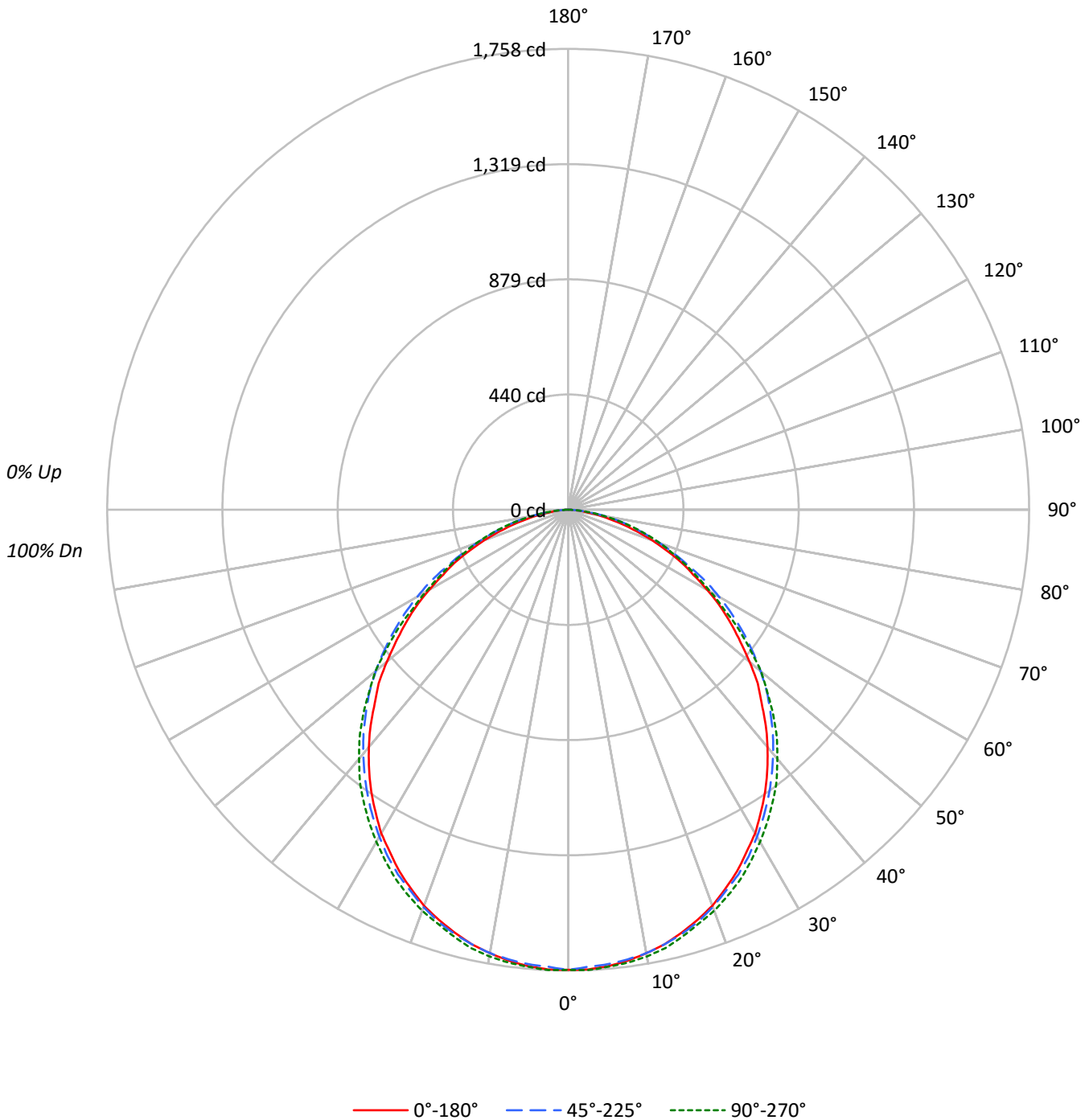
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4724	4724	4724
5°	4722	4701	4728
10°	4694	4694	4728
15°	4653	4667	4695
20°	4604	4619	4661
25°	4521	4559	4618
30°	4429	4475	4545
35°	4304	4378	4469
40°	4155	4269	4357
45°	3968	4149	4206
50°	3779	4009	4020
55°	3555	3813	3719
60°	3297	3580	3378
65°	3041	3232	3137
70°	2676	2912	2932
75°	2209	2626	2652
80°	1705	2208	2170
85°	1158	1544	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.7
10°-20°	473.3	10.4
20°-30°	708.4	15.6
30°-40°	834.6	18.4
40°-50°	835.2	18.4
50°-60°	709.2	15.6
60°-70°	495.0	10.9
70°-80°	260.7	5.7
80°-90°	58.8	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°	1347.7	29.7
0°-40°	2182.4	48.1
0°-60°	3726.7	82.1
0°-90°	4541.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4541.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1748	1748	1740	1750	1750	166
15°	1670	1675	1675	1685	1685	471
25°	1523	1530	1535	1555	1555	701
35°	1310	1318	1333	1355	1360	818
45°	1043	1060	1090	1108	1105	807
55°	758	785	813	808	793	677
65°	478	503	508	498	493	469
75°	212	240	253	255	255	229
85°	38	48	50	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1755.4	1752.9	1745.4	1755.4	1757.9
5°	1747.9	1747.9	1740.4	1750.4	1750.4
7.5°	1735.4	1737.9	1730.4	1742.9	1742.9
10°	1717.8	1720.3	1717.8	1730.4	1730.4
12.5°	1697.8	1700.3	1697.8	1710.3	1712.8
15°	1670.3	1675.3	1675.3	1685.3	1685.3
17.5°	1640.3	1645.3	1647.8	1655.3	1655.3
20°	1607.8	1612.8	1612.8	1625.3	1627.8
22.5°	1565.3	1572.8	1572.8	1592.8	1592.8
25°	1522.8	1530.3	1535.3	1555.3	1555.3
27.5°	1472.8	1480.3	1490.3	1510.3	1510.3
30°	1425.3	1427.8	1440.3	1455.3	1462.8
32.5°	1367.8	1375.3	1387.8	1410.3	1412.8
35°	1310.3	1317.8	1332.8	1355.3	1360.3
37.5°	1247.8	1255.3	1275.3	1302.8	1305.3
40°	1182.7	1190.2	1215.2	1242.8	1240.3
42.5°	1115.2	1125.2	1155.2	1175.2	1177.7
45°	1042.7	1060.2	1090.2	1107.7	1105.2
47.5°	980.2	992.7	1027.7	1035.2	1030.2
50°	902.7	925.2	957.7	962.7	960.2
52.5°	827.7	850.2	885.2	885.2	872.7
55°	757.7	785.2	812.7	807.7	792.7
57.5°	687.6	710.1	740.2	725.1	702.6
60°	612.6	640.1	665.1	640.1	627.6
62.5°	537.6	575.1	590.1	562.6	555.1
65°	477.6	502.6	507.6	497.6	492.6
67.5°	405.1	437.6	437.6	432.6	427.6
70°	340.1	367.6	370.1	372.6	372.6
72.5°	272.6	305.1	307.6	315.1	312.6
75°	212.5	240.0	252.6	255.1	255.1
77.5°	157.5	180.0	197.5	197.5	195.0
80°	110.0	130.0	142.5	142.5	140.0
82.5°	67.5	85.0	95.0	92.5	92.5
85°	37.5	47.5	50.0	47.5	47.5
87.5°	15.0	17.5	15.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)