

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: P220222

Luminaire Tested: **R3-WD-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-3L30-LD5-UNV-24  
Description: CLASS R3 2X4 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: 4669.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

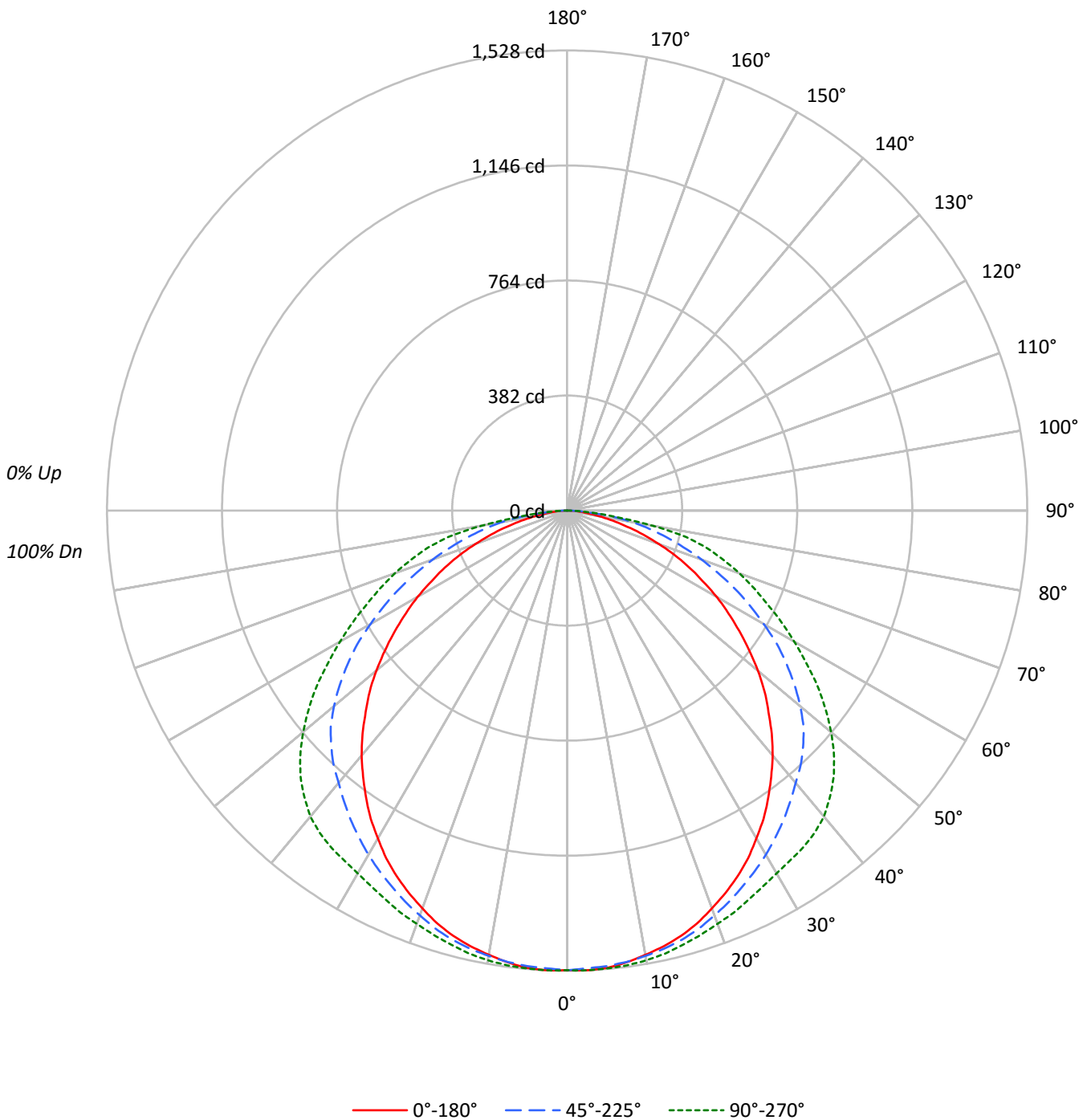
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2054	2054	2054
5°	2059	2050	2061
10°	2047	2051	2072
15°	2036	2055	2078
20°	2013	2048	2091
25°	1989	2045	2116
30°	1953	2050	2161
35°	1912	2059	2244
40°	1865	2074	2330
45°	1800	2108	2382
50°	1731	2115	2395
55°	1637	2087	2382
60°	1544	2029	2345
65°	1427	1959	2332
70°	1269	1867	2394
75°	1075	1771	2493
80°	845	1717	2229
85°	613	1149	1277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.1
10°-20°	416.9	8.9
20°-30°	637.5	13.7
30°-40°	788.4	16.9
40°-50°	849.0	18.2
50°-60°	779.3	16.7
60°-70°	598.2	12.8
70°-80°	364.1	7.8
80°-90°	90.9	1.9
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°	1199.2	25.7
0°-40°	1987.6	42.6
0°-60°	3615.9	77.4
0°-90°	4669.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1525	1521	1518	1525	1526	145
15°	1462	1465	1475	1490	1492	412
25°	1340	1354	1378	1416	1426	617
35°	1164	1186	1254	1333	1366	728
45°	946	986	1108	1216	1252	730
55°	698	754	890	986	1015	625
65°	448	508	615	703	733	443
75°	207	260	341	440	480	222
85°	40	63	74	78	83	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.3	1526.3	1526.3	1526.3	1526.3
2.5°	1528.0	1526.3	1521.4	1526.3	1528.0
5°	1524.7	1521.4	1518.1	1524.7	1526.3
7.5°	1513.1	1513.1	1511.5	1521.4	1523.0
10°	1498.2	1501.5	1501.5	1514.8	1516.4
12.5°	1481.7	1485.0	1490.0	1504.8	1506.5
15°	1461.9	1465.2	1475.1	1490.0	1491.6
17.5°	1437.0	1443.7	1455.2	1471.8	1476.7
20°	1405.6	1417.2	1430.4	1455.2	1460.2
22.5°	1374.2	1387.4	1405.6	1433.7	1445.3
25°	1339.5	1354.4	1377.5	1415.5	1425.5
27.5°	1301.4	1316.3	1349.4	1392.4	1407.3
30°	1256.8	1273.3	1319.6	1369.2	1390.7
32.5°	1213.8	1230.3	1286.6	1349.4	1377.5
35°	1164.2	1185.7	1253.5	1332.9	1365.9
37.5°	1112.9	1136.1	1217.1	1316.3	1349.4
40°	1061.7	1088.1	1180.7	1293.2	1326.3
42.5°	1005.4	1036.9	1147.7	1256.8	1291.5
45°	945.9	985.6	1108.0	1215.5	1251.8
47.5°	889.7	931.0	1065.0	1170.8	1202.2
50°	826.8	874.8	1010.4	1114.6	1144.3
52.5°	762.3	818.6	952.5	1056.7	1081.5
55°	697.9	754.1	889.7	985.6	1015.4
57.5°	635.0	699.5	826.8	917.8	940.9
60°	573.8	635.0	754.1	843.4	871.5
62.5°	507.7	573.8	684.6	773.9	802.0
65°	448.1	507.7	615.2	702.8	732.6
67.5°	387.0	443.2	542.4	631.7	669.7
70°	322.5	378.7	474.6	568.9	608.6
72.5°	264.6	315.9	405.2	506.0	544.1
75°	206.7	259.6	340.7	439.9	479.6
77.5°	155.4	203.4	279.5	373.7	405.2
80°	109.1	153.8	221.6	279.5	287.7
82.5°	71.1	107.5	145.5	162.1	163.7
85°	39.7	62.8	74.4	77.7	82.7
87.5°	16.5	21.5	28.1	29.8	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)