

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: P220231

Luminaire Tested: **R3-WD-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220231  
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-2L40-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3912.6 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

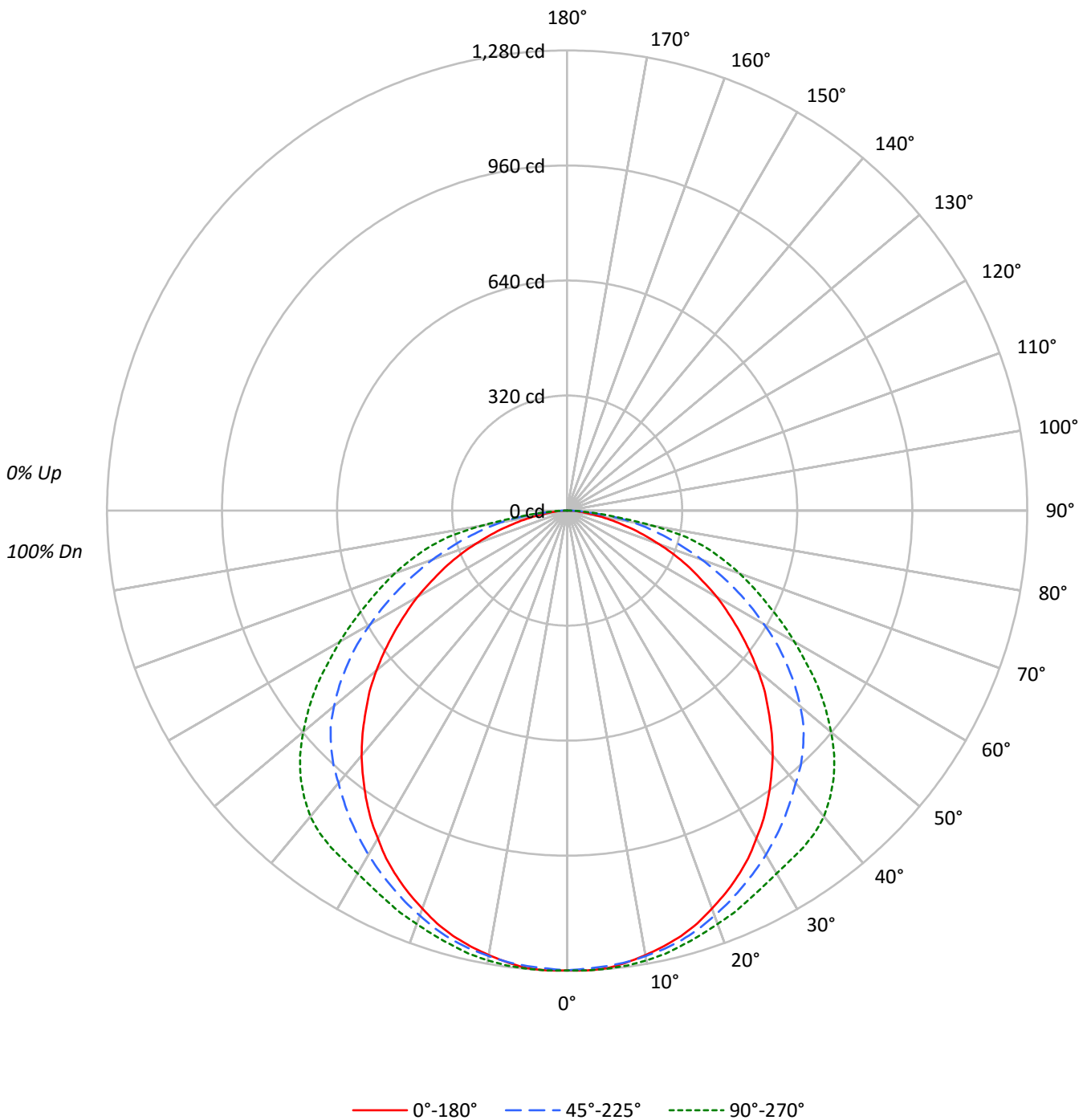
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220231

CATALOG NUMBER: R3-WD-2L40-LD5-UNV-24

### Luminous Intensity Polar Plot





TEST NUMBER: P220231

CATALOG NUMBER: R3-WD-2L40-LD5-UNV-24

**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°	1721	1721	1721
5°	1726	1718	1728
10°	1715	1719	1736
15°	1706	1722	1741
20°	1687	1716	1752
25°	1666	1714	1773
30°	1636	1718	1811
35°	1602	1725	1880
40°	1563	1738	1952
45°	1508	1767	1996
50°	1450	1772	2007
55°	1372	1749	1996
60°	1294	1700	1965
65°	1195	1641	1954
70°	1063	1565	2006
75°	900	1484	2089
80°	709	1439	1868
85°	514	963	1070



TEST NUMBER: P220231

CATALOG NUMBER: R3-WD-2L40-LD5-UNV-24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.3	3.1
10°-20°	349.3	8.9
20°-30°	534.2	13.7
30°-40°	660.6	16.9
40°-50°	711.4	18.2
50°-60°	653.1	16.7
60°-70°	501.3	12.8
70°-80°	305.1	7.8
80°-90°	76.2	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°	1004.9	25.7
0°-40°	1665.6	42.6
0°-60°	3030.0	77.4
0°-90°	3912.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3912.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1278	1275	1272	1278	1279	121
15°	1225	1228	1236	1249	1250	345
25°	1122	1135	1154	1186	1194	517
35°	976	994	1050	1117	1145	610
45°	793	826	928	1018	1049	612
55°	585	632	746	826	851	524
65°	376	425	516	589	614	371
75°	173	218	286	369	402	186
85°	33	53	62	65	69	41
90°	0	0	0	0	0	



TEST NUMBER: P220231

CATALOG NUMBER: R3-WD-2L40-LD5-UNV-24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1280.4	1279.1	1274.9	1279.1	1280.4
5°	1277.7	1274.9	1272.1	1277.7	1279.1
7.5°	1268.0	1268.0	1266.6	1274.9	1276.3
10°	1255.5	1258.3	1258.3	1269.4	1270.7
12.5°	1241.6	1244.4	1248.6	1261.0	1262.4
15°	1225.0	1227.8	1236.1	1248.6	1250.0
17.5°	1204.2	1209.8	1219.5	1233.3	1237.5
20°	1177.9	1187.6	1198.7	1219.5	1223.6
22.5°	1151.6	1162.6	1177.9	1201.4	1211.1
25°	1122.5	1134.9	1154.3	1186.2	1194.5
27.5°	1090.6	1103.1	1130.8	1166.8	1179.3
30°	1053.2	1067.0	1105.8	1147.4	1165.4
32.5°	1017.1	1031.0	1078.1	1130.8	1154.3
35°	975.6	993.6	1050.4	1116.9	1144.6
37.5°	932.6	952.0	1019.9	1103.1	1130.8
40°	889.7	911.8	989.4	1083.7	1111.4
42.5°	842.5	868.9	961.7	1053.2	1082.3
45°	792.7	825.9	928.5	1018.5	1049.0
47.5°	745.5	780.2	892.4	981.1	1007.4
50°	692.9	733.1	846.7	934.0	958.9
52.5°	638.8	685.9	798.2	885.5	906.3
55°	584.8	631.9	745.5	825.9	850.9
57.5°	532.1	586.2	692.9	769.1	788.5
60°	480.9	532.1	631.9	706.7	730.3
62.5°	425.4	480.9	573.7	648.5	672.1
65°	375.5	425.4	515.5	588.9	613.9
67.5°	324.3	371.4	454.5	529.4	561.2
70°	270.2	317.3	397.7	476.7	510.0
72.5°	221.7	264.7	339.5	424.0	455.9
75°	173.2	217.6	285.5	368.6	401.9
77.5°	130.3	170.4	234.2	313.2	339.5
80°	91.5	128.9	185.7	234.2	241.1
82.5°	59.6	90.1	121.9	135.8	137.2
85°	33.3	52.7	62.4	65.1	69.3
87.5°	13.9	18.0	23.6	24.9	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)