

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: P220066

Luminaire Tested: **R3-WL-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-5L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3979.9 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

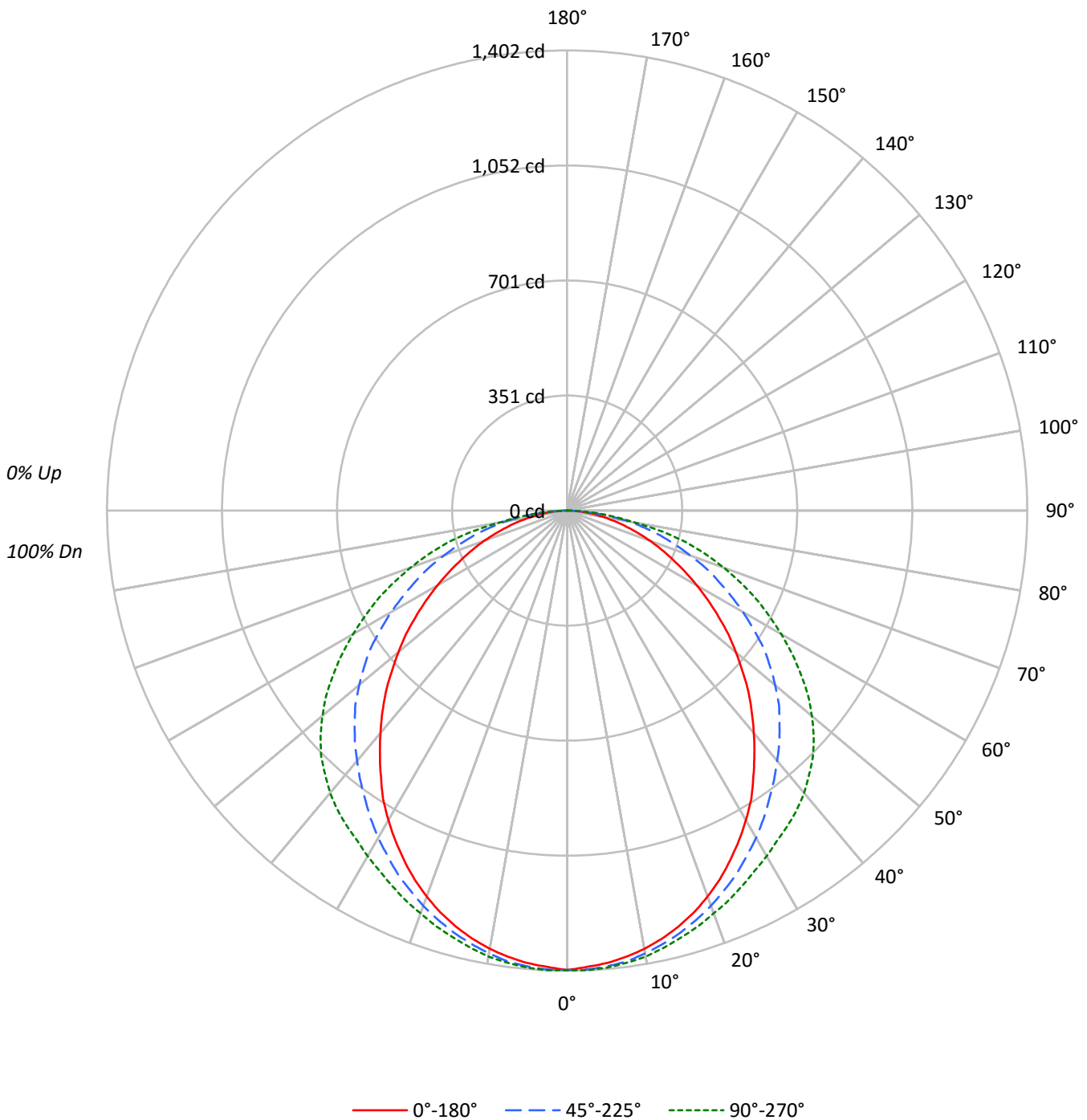
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220066

CATALOG NUMBER: R3-WL-5L35-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P220066

CATALOG NUMBER: R3-WL-5L35-LD5-UNV-22

**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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	3767	3767	3767
5°	3738	3765	3776
10°	3704	3743	3770
15°	3654	3710	3749
20°	3584	3670	3739
25°	3490	3627	3746
30°	3385	3578	3777
35°	3250	3526	3848
40°	3109	3496	3946
45°	2972	3483	4032
50°	2809	3463	4075
55°	2640	3429	4077
60°	2457	3330	4053
65°	2270	3239	4042
70°	2111	3135	3987
75°	1915	3061	3915
80°	1706	2947	3259
85°	1547	2350	2844



TEST NUMBER: P220066

CATALOG NUMBER: R3-WL-5L35-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	3.3
10°-20°	375.3	9.4
20°-30°	562.2	14.1
30°-40°	674.9	17.0
40°-50°	707.2	17.8
50°-60°	644.3	16.2
60°-70°	497.3	12.5
70°-80°	301.9	7.6
80°-90°	84.7	2.1
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°	1069.7	26.9
0°-40°	1744.5	43.8
0°-60°	3096.0	77.8
0°-90°	3979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1384	1388	1394	1398	1398	131
15°	1312	1320	1332	1344	1346	369
25°	1176	1190	1222	1250	1262	541
35°	989	1013	1073	1144	1172	619
45°	781	815	915	1019	1059	601
55°	563	609	731	831	869	504
65°	356	406	509	599	635	356
75°	184	220	294	356	376	196
85°	50	60	76	88	92	56
90°	0	0	0	0	0	



TEST NUMBER: P220066

CATALOG NUMBER: R3-WL-5L35-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.8	1399.8	1399.8	1399.8	1399.8
2.5°	1391.8	1393.8	1399.8	1401.8	1401.8
5°	1383.8	1387.8	1393.8	1397.8	1397.8
7.5°	1371.8	1375.8	1385.8	1389.8	1389.8
10°	1355.7	1361.8	1369.8	1377.8	1379.8
12.5°	1335.7	1341.7	1351.7	1361.8	1363.8
15°	1311.7	1319.7	1331.7	1343.7	1345.7
17.5°	1283.7	1291.7	1307.7	1323.7	1327.7
20°	1251.6	1259.6	1281.6	1301.7	1305.7
22.5°	1215.6	1227.6	1251.6	1277.6	1285.7
25°	1175.5	1189.5	1221.6	1249.6	1261.6
27.5°	1133.5	1149.5	1185.5	1223.6	1237.6
30°	1089.4	1105.4	1151.5	1195.5	1215.6
32.5°	1043.3	1059.4	1113.4	1169.5	1191.5
35°	989.3	1013.3	1073.4	1143.5	1171.5
37.5°	937.2	965.2	1035.3	1117.4	1149.5
40°	885.1	915.2	995.3	1087.4	1123.4
42.5°	833.1	865.1	957.2	1057.4	1091.4
45°	781.0	815.0	915.2	1019.3	1059.4
47.5°	724.9	763.0	875.1	977.3	1019.3
50°	670.9	712.9	827.1	935.2	973.3
52.5°	618.8	658.8	779.0	887.1	925.2
55°	562.7	608.8	730.9	831.1	869.1
57.5°	508.7	556.7	672.9	777.0	813.0
60°	456.6	502.6	618.8	718.9	753.0
62.5°	406.5	454.6	562.7	658.8	692.9
65°	356.5	406.5	508.7	598.8	634.8
67.5°	312.4	356.5	456.6	540.7	570.7
70°	268.3	306.4	398.5	478.6	506.7
72.5°	224.3	262.3	344.4	416.5	442.6
75°	184.2	220.3	294.4	356.5	376.5
77.5°	146.2	178.2	242.3	292.4	298.4
80°	110.1	136.2	190.2	212.3	210.3
82.5°	80.1	98.1	128.2	144.2	144.2
85°	50.1	60.1	76.1	88.1	92.1
87.5°	22.0	26.0	32.0	34.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)