

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: P219950

Luminaire Tested: **R3-WL-2L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-2L35-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

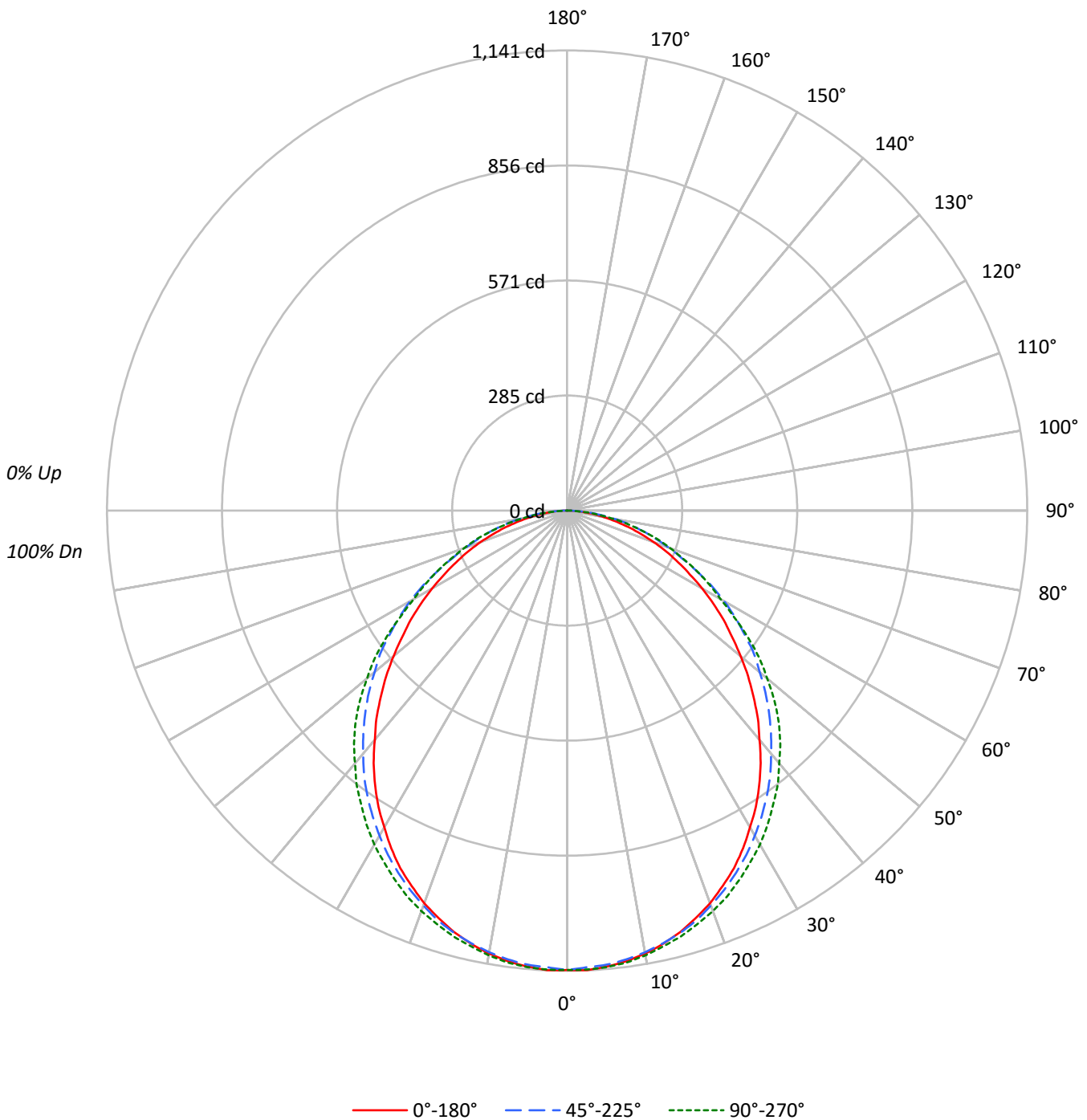
Lumens per Lamp: N/A  
Luminaire Lumens: 3009.3 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.8  
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	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76		82	78	74		79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		48	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	3066	3066	3066
5°	3065	3053	3069
10°	3047	3039	3060
15°	3015	3019	3044
20°	2966	2983	3026
25°	2906	2942	3000
30°	2818	2892	2971
35°	2728	2836	2925
40°	2607	2764	2875
45°	2487	2692	2824
50°	2353	2611	2711
55°	2222	2525	2567
60°	2081	2420	2364
65°	1938	2252	2262
70°	1792	2099	2135
75°	1621	1995	1995
80°	1416	1858	1742
85°	1204	1528	1343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	3.6
10°-20°	306.4	10.2
20°-30°	457.7	15.2
30°-40°	539.3	17.9
40°-50°	541.9	18.0
50°-60°	468.8	15.6
60°-70°	339.1	11.3
70°-80°	194.9	6.5
80°-90°	53.5	1.8
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°	871.8	29.0
0°-40°	1411.1	46.9
0°-60°	2421.8	80.5
0°-90°	3009.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3009.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1135	1135	1130	1136	1136	108
15°	1082	1084	1084	1093	1093	305
25°	979	982	991	1007	1010	450
35°	830	841	863	886	890	518
45°	654	673	708	736	742	504
55°	474	496	538	555	547	423
65°	304	325	354	355	355	302
75°	156	172	192	198	192	165
85°	39	46	50	46	44	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1140.7	1139.2	1133.2	1139.2	1139.2
5°	1134.7	1134.7	1130.2	1136.2	1136.2
7.5°	1127.2	1125.7	1122.7	1128.7	1130.2
10°	1115.2	1115.2	1112.2	1119.7	1119.7
12.5°	1100.2	1100.2	1098.7	1107.7	1106.2
15°	1082.2	1083.7	1083.7	1092.7	1092.7
17.5°	1059.7	1062.7	1065.7	1076.2	1074.7
20°	1035.8	1038.8	1041.8	1055.2	1056.7
22.5°	1007.3	1011.8	1017.8	1034.3	1035.8
25°	978.8	981.8	990.8	1007.3	1010.3
27.5°	944.3	950.3	962.3	981.8	983.3
30°	906.9	917.3	930.8	951.8	956.3
32.5°	870.9	879.9	897.9	920.3	924.8
35°	830.4	840.9	863.4	885.9	890.4
37.5°	788.4	798.9	827.4	851.4	857.4
40°	742.0	757.0	786.9	813.9	818.4
42.5°	700.0	713.5	748.0	774.9	782.4
45°	653.5	673.0	707.5	736.0	742.0
47.5°	608.6	626.6	667.0	694.0	697.0
50°	562.1	584.6	623.6	650.5	647.5
52.5°	515.6	539.6	584.6	601.1	601.1
55°	473.7	496.1	538.1	554.6	547.1
57.5°	430.2	454.2	494.6	505.1	490.1
60°	386.7	409.2	449.7	448.2	439.2
62.5°	343.3	367.2	403.2	400.2	397.2
65°	304.3	325.3	353.7	355.2	355.2
67.5°	266.8	287.8	307.3	314.8	310.3
70°	227.8	248.8	266.8	274.3	271.3
72.5°	190.4	212.8	227.8	236.8	233.8
75°	155.9	172.4	191.9	197.9	191.9
77.5°	121.4	137.9	155.9	158.9	152.9
80°	91.4	104.9	119.9	116.9	112.4
82.5°	64.5	74.9	83.9	79.4	76.4
85°	39.0	46.5	49.5	46.5	43.5
87.5°	16.5	19.5	19.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)