

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: P219992

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-2L35-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2897.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

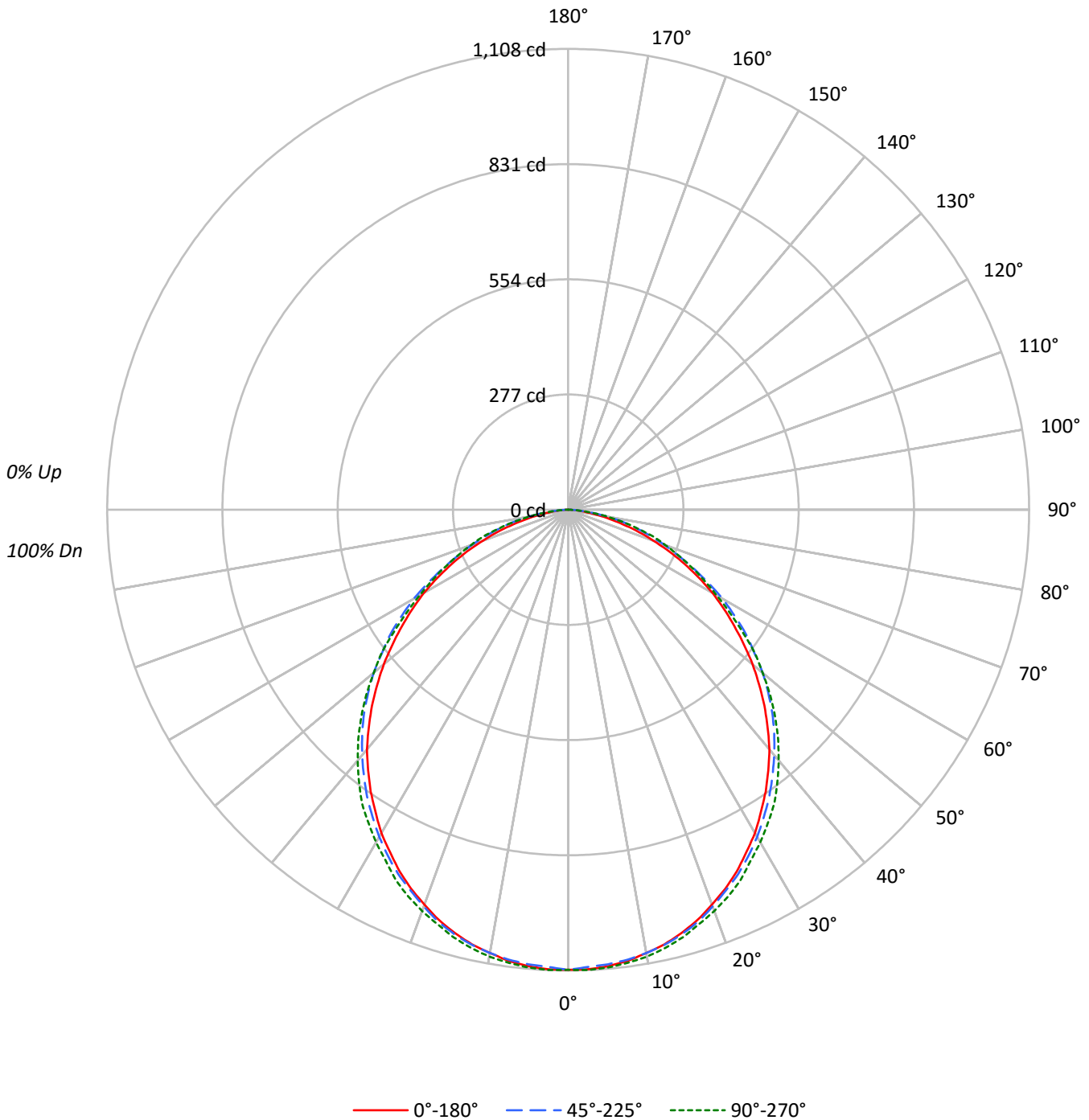
Input Watts (W): 23.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

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

	0°	45°	90°
0°	2977	2977	2977
5°	2976	2964	2984
10°	2957	2957	2982
15°	2936	2944	2965
20°	2893	2906	2940
25°	2848	2871	2915
30°	2790	2822	2869
35°	2718	2767	2836
40°	2643	2706	2764
45°	2538	2641	2675
50°	2422	2554	2554
55°	2286	2447	2398
60°	2154	2307	2218
65°	1966	2100	2081
70°	1710	1922	1958
75°	1418	1746	1761
80°	1046	1463	1463
85°	695	1065	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	3.6
10°-20°	298.4	10.3
20°-30°	446.3	15.4
30°-40°	527.5	18.2
40°-50°	531.2	18.3
50°-60°	455.4	15.7
60°-70°	322.9	11.1
70°-80°	172.2	5.9
80°-90°	38.5	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°	849.3	29.3
0°-40°	1376.8	47.5
0°-60°	2363.4	81.6
0°-90°	2897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1102	1102	1097	1103	1105	105
15°	1054	1055	1057	1063	1064	297
25°	959	964	967	979	982	441
35°	827	829	842	857	863	517
45°	667	674	694	704	703	514
55°	487	501	522	519	511	436
65°	309	324	330	328	327	305
75°	136	154	168	174	169	147
85°	22	30	34	33	30	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1106.2	1106.2	1106.2	1106.2	1106.2
2.5°	1106.2	1104.7	1100.2	1107.7	1107.7
5°	1101.7	1101.7	1097.2	1103.2	1104.7
7.5°	1094.2	1094.2	1091.2	1098.7	1098.7
10°	1082.2	1083.7	1082.2	1089.7	1091.2
12.5°	1070.2	1071.7	1071.7	1077.7	1079.2
15°	1053.7	1055.2	1056.7	1062.7	1064.2
17.5°	1034.3	1037.3	1038.8	1044.8	1044.8
20°	1010.3	1014.8	1014.8	1025.3	1026.8
22.5°	986.3	989.3	990.8	1002.8	1005.8
25°	959.3	963.8	966.8	978.8	981.8
27.5°	927.8	932.3	938.3	951.8	950.3
30°	897.9	899.4	908.3	921.8	923.3
32.5°	861.9	866.4	875.4	890.4	893.4
35°	827.4	828.9	842.4	857.4	863.4
37.5°	789.9	794.4	806.4	822.9	825.9
40°	752.5	755.5	770.4	788.4	786.9
42.5°	709.0	715.0	733.0	746.5	746.5
45°	667.0	674.5	694.0	704.5	703.0
47.5°	622.1	632.5	652.0	661.0	658.0
50°	578.6	589.1	610.1	614.6	610.1
52.5°	532.1	545.6	563.6	565.1	565.1
55°	487.2	500.6	521.6	518.6	511.1
57.5°	443.7	457.2	473.7	467.7	460.2
60°	400.2	412.2	428.7	416.7	412.2
62.5°	353.7	370.2	377.7	371.7	368.7
65°	308.8	323.8	329.8	328.3	326.8
67.5°	263.8	281.8	284.8	286.3	286.3
70°	217.3	238.3	244.3	248.8	248.8
72.5°	178.4	196.4	203.9	211.3	212.8
75°	136.4	154.4	167.9	173.9	169.4
77.5°	101.9	115.4	133.4	131.9	131.9
80°	67.5	82.4	94.4	97.4	94.4
82.5°	42.0	55.5	61.5	61.5	60.0
85°	22.5	30.0	34.5	33.0	30.0
87.5°	9.0	10.5	10.5	7.5	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)