

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: P219979

Luminaire Tested: **R3-WD-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-3L35-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3682.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

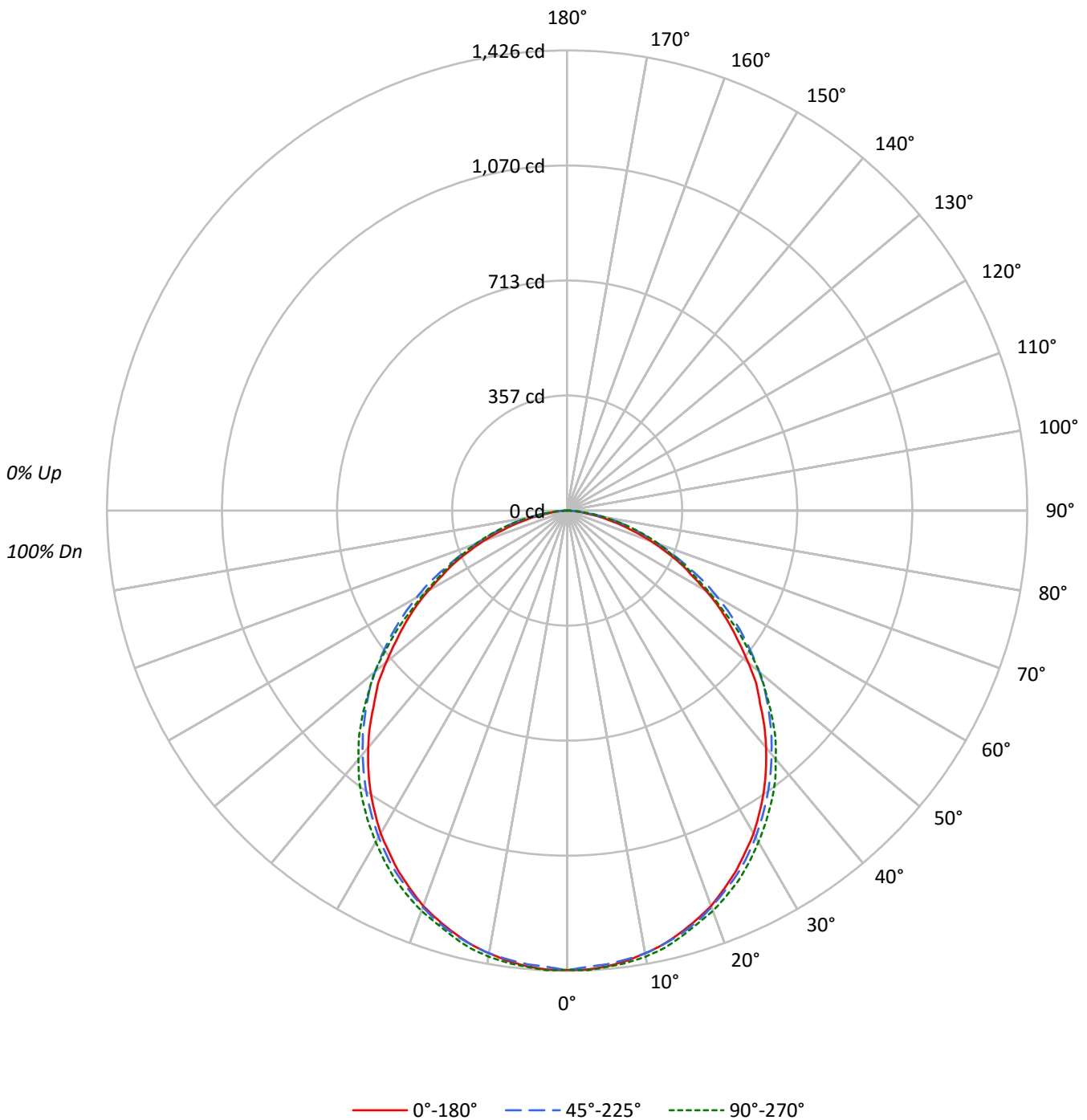
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3831	3831	3831
5°	3829	3813	3834
10°	3807	3807	3835
15°	3774	3785	3808
20°	3734	3746	3781
25°	3667	3697	3745
30°	3592	3630	3686
35°	3491	3551	3624
40°	3370	3462	3533
45°	3218	3365	3411
50°	3065	3252	3260
55°	2883	3092	3016
60°	2674	2903	2739
65°	2466	2621	2544
70°	2170	2361	2378
75°	1792	2129	2150
80°	1382	1791	1760
85°	939	1254	1189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	3.7
10°-20°	383.9	10.4
20°-30°	574.5	15.6
30°-40°	676.9	18.4
40°-50°	677.3	18.4
50°-60°	575.1	15.6
60°-70°	401.5	10.9
70°-80°	211.4	5.7
80°-90°	47.7	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°	1093.0	29.7
0°-40°	1769.9	48.1
0°-60°	3022.3	82.1
0°-90°	3682.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1418	1418	1411	1420	1420	135
15°	1355	1359	1359	1367	1367	382
25°	1235	1241	1245	1261	1261	568
35°	1063	1069	1081	1099	1103	664
45°	846	860	884	898	896	654
55°	614	637	659	655	643	549
65°	387	408	412	404	400	380
75°	172	195	205	207	207	185
85°	30	38	41	38	38	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.6	1423.6	1423.6	1423.6	1423.6
2.5°	1423.6	1421.6	1415.5	1423.6	1425.6
5°	1417.5	1417.5	1411.4	1419.5	1419.5
7.5°	1407.4	1409.4	1403.3	1413.5	1413.5
10°	1393.2	1395.2	1393.2	1403.3	1403.3
12.5°	1377.0	1379.0	1377.0	1387.1	1389.1
15°	1354.6	1358.7	1358.7	1366.8	1366.8
17.5°	1330.3	1334.4	1336.4	1342.5	1342.5
20°	1304.0	1308.0	1308.0	1318.1	1320.2
22.5°	1269.5	1275.6	1275.6	1291.8	1291.8
25°	1235.0	1241.1	1245.1	1261.4	1261.4
27.5°	1194.4	1200.5	1208.6	1224.9	1224.9
30°	1155.9	1157.9	1168.1	1180.2	1186.3
32.5°	1109.3	1115.4	1125.5	1143.7	1145.8
35°	1062.6	1068.7	1080.9	1099.1	1103.2
37.5°	1011.9	1018.0	1034.2	1056.5	1058.6
40°	959.2	965.3	985.6	1007.9	1005.8
42.5°	904.5	912.6	936.9	953.1	955.1
45°	845.6	859.8	884.2	898.4	896.3
47.5°	794.9	805.1	833.5	839.6	835.5
50°	732.1	750.3	776.7	780.7	778.7
52.5°	671.2	689.5	717.9	717.9	707.7
55°	614.5	636.8	659.1	655.0	642.9
57.5°	557.7	575.9	600.3	588.1	569.8
60°	496.8	519.1	539.4	519.1	509.0
62.5°	436.0	466.4	478.6	456.3	450.2
65°	387.3	407.6	411.7	403.6	399.5
67.5°	328.5	354.9	354.9	350.8	346.8
70°	275.8	298.1	300.1	302.2	302.2
72.5°	221.0	247.4	249.4	255.5	253.5
75°	172.4	194.7	204.8	206.8	206.8
77.5°	127.8	146.0	160.2	160.2	158.2
80°	89.2	105.5	115.6	115.6	113.6
82.5°	54.8	68.9	77.1	75.0	75.0
85°	30.4	38.5	40.6	38.5	38.5
87.5°	12.2	14.2	12.2	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)