

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: P219977

Luminaire Tested: **R3-WD-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219977  
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-1L35-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: 1836.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

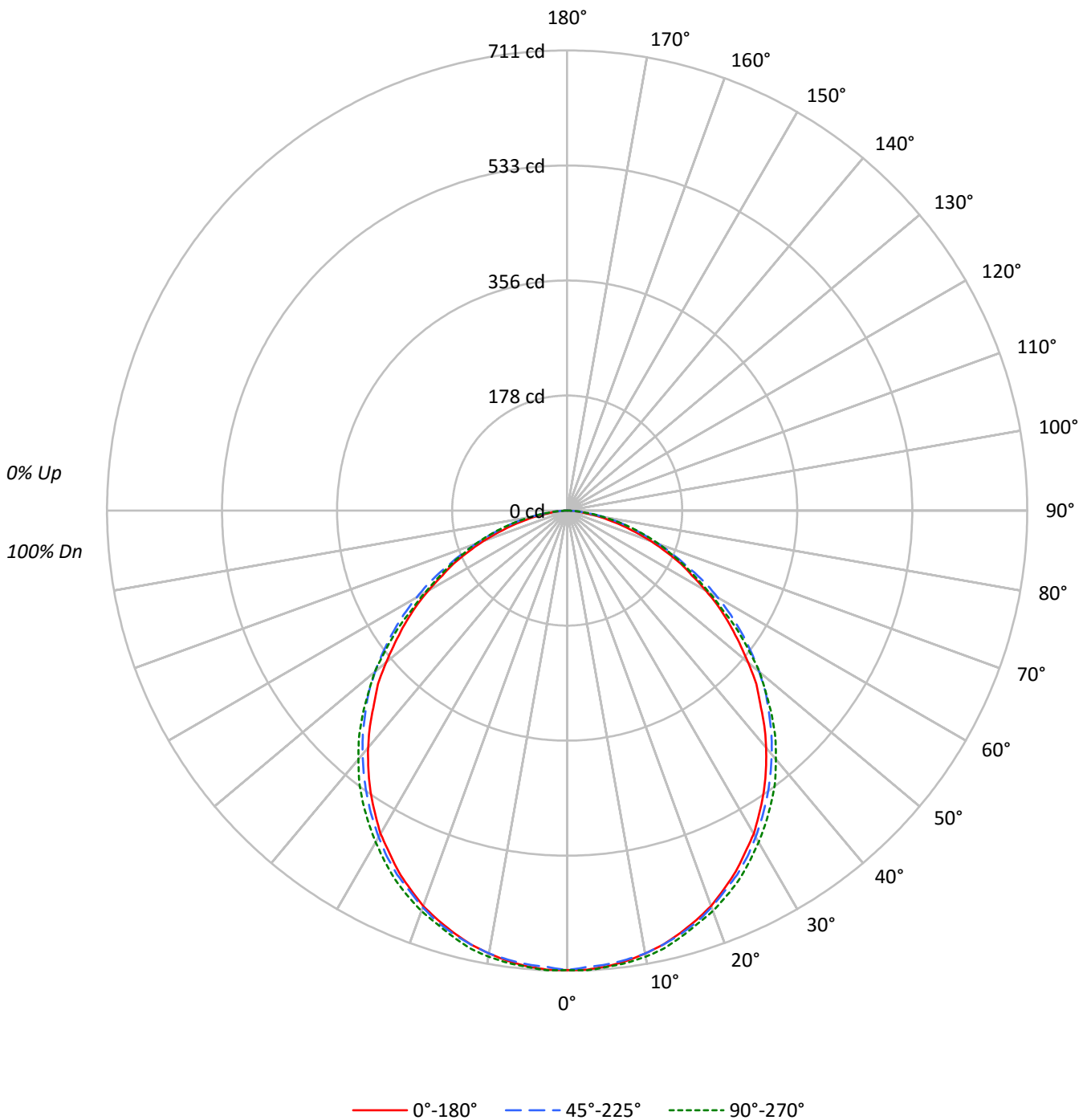
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1911	1911	1911
5°	1910	1901	1912
10°	1899	1899	1912
15°	1882	1888	1899
20°	1862	1868	1885
25°	1829	1844	1868
30°	1791	1810	1838
35°	1741	1771	1807
40°	1681	1727	1762
45°	1605	1678	1701
50°	1528	1621	1626
55°	1437	1542	1504
60°	1334	1448	1366
65°	1230	1307	1268
70°	1082	1178	1186
75°	894	1062	1073
80°	690	893	877
85°	469	624	593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.1	3.7
10°-20°	191.4	10.4
20°-30°	286.5	15.6
30°-40°	337.6	18.4
40°-50°	337.8	18.4
50°-60°	286.8	15.6
60°-70°	200.2	10.9
70°-80°	105.4	5.7
80°-90°	23.8	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°	545.1	29.7
0°-40°	882.7	48.1
0°-60°	1507.3	82.1
0°-90°	1836.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	707	707	704	708	708	67
15°	676	678	678	682	682	191
25°	616	619	621	629	629	283
35°	530	533	539	548	550	331
45°	422	429	441	448	447	326
55°	306	318	329	327	321	274
65°	193	203	205	201	199	190
75°	86	97	102	103	103	92
85°	15	19	20	19	19	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	710.0	710.0	710.0	710.0	710.0
2.5°	710.0	709.0	705.9	710.0	711.0
5°	706.9	706.9	703.9	707.9	707.9
7.5°	701.9	702.9	699.9	704.9	704.9
10°	694.8	695.8	694.8	699.9	699.9
12.5°	686.7	687.7	686.7	691.8	692.8
15°	675.6	677.6	677.6	681.6	681.6
17.5°	663.4	665.5	666.5	669.5	669.5
20°	650.3	652.3	652.3	657.4	658.4
22.5°	633.1	636.1	636.1	644.2	644.2
25°	615.9	618.9	621.0	629.1	629.1
27.5°	595.7	598.7	602.8	610.9	610.9
30°	576.5	577.5	582.5	588.6	591.6
32.5°	553.2	556.2	561.3	570.4	571.4
35°	529.9	533.0	539.0	548.1	550.2
37.5°	504.7	507.7	515.8	526.9	527.9
40°	478.4	481.4	491.5	502.6	501.6
42.5°	451.1	455.1	467.2	475.3	476.3
45°	421.7	428.8	440.9	448.0	447.0
47.5°	396.4	401.5	415.7	418.7	416.7
50°	365.1	374.2	387.3	389.4	388.4
52.5°	334.8	343.9	358.0	358.0	353.0
55°	306.4	317.6	328.7	326.7	320.6
57.5°	278.1	287.2	299.4	293.3	284.2
60°	247.8	258.9	269.0	258.9	253.8
62.5°	217.4	232.6	238.7	227.6	224.5
65°	193.2	203.3	205.3	201.3	199.2
67.5°	163.8	177.0	177.0	175.0	172.9
70°	137.5	148.7	149.7	150.7	150.7
72.5°	110.2	123.4	124.4	127.4	126.4
75°	86.0	97.1	102.1	103.2	103.2
77.5°	63.7	72.8	79.9	79.9	78.9
80°	44.5	52.6	57.6	57.6	56.6
82.5°	27.3	34.4	38.4	37.4	37.4
85°	15.2	19.2	20.2	19.2	19.2
87.5°	6.1	7.1	6.1	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)