

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: P220096

Luminaire Tested: **R3-WD-1L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)  
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-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1909.4 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

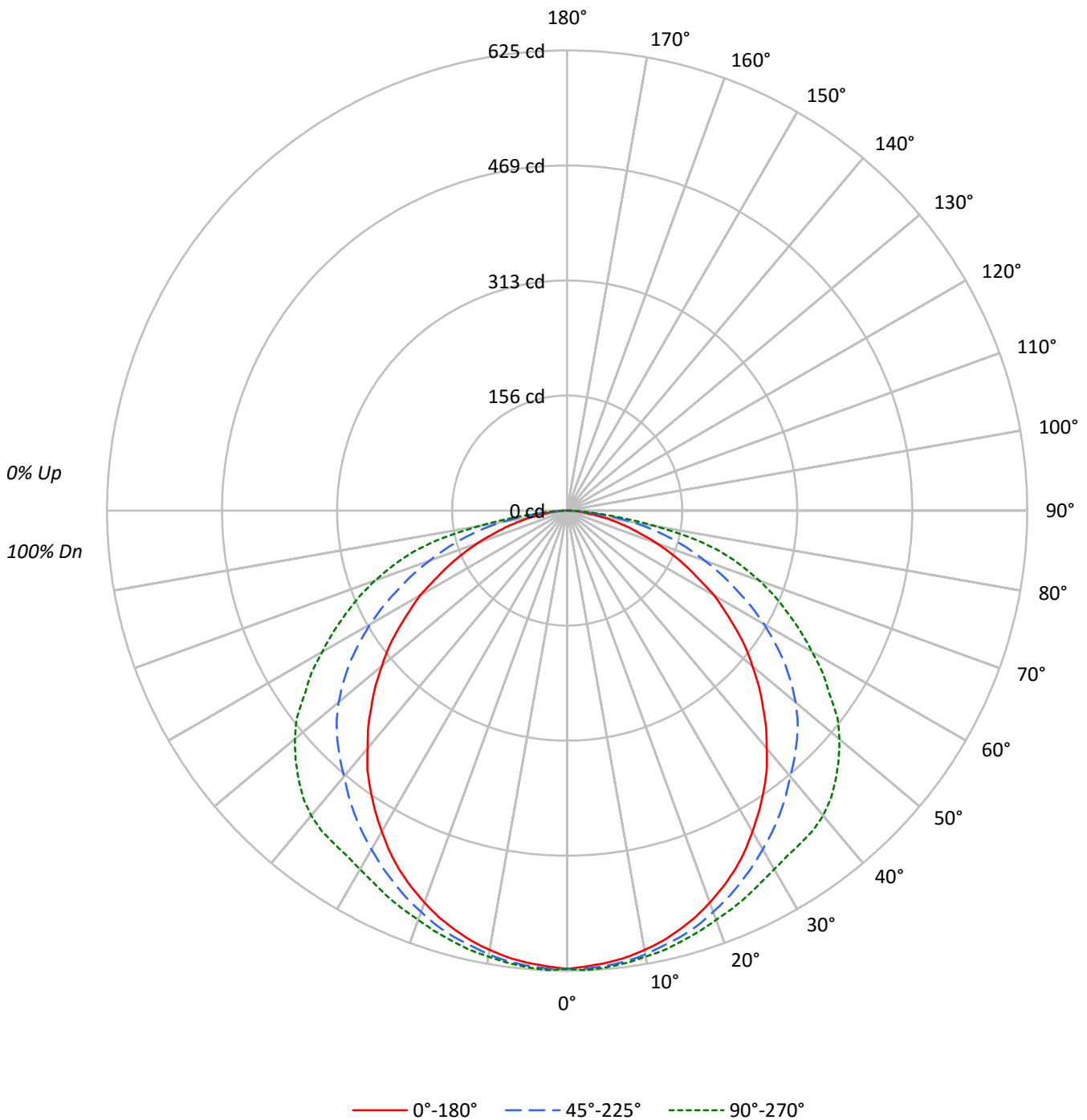
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	1675	1675	1675
5°	1665	1676	1682
10°	1656	1673	1681
15°	1642	1668	1685
20°	1623	1661	1694
25°	1599	1655	1716
30°	1564	1651	1748
35°	1528	1654	1814
40°	1481	1656	1899
45°	1431	1679	1963
50°	1375	1696	2021
55°	1312	1691	2041
60°	1243	1661	2068
65°	1135	1610	2111
70°	1019	1565	2184
75°	872	1519	2251
80°	707	1413	1878
85°	513	895	1087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	3.1
10°-20°	168.8	8.8
20°-30°	257.3	13.5
30°-40°	316.9	16.6
40°-50°	342.5	17.9
50°-60°	320.5	16.8
60°-70°	252.0	13.2
70°-80°	155.4	8.1
80°-90°	37.1	1.9
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°	485.0	25.4
0°-40°	802.0	42.0
0°-60°	1464.9	76.7
0°-90°	1909.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	616	618	620	622	623	59
15°	589	592	599	604	605	166
25°	539	544	557	573	578	248
35°	465	474	503	537	552	291
45°	376	394	441	496	516	290
55°	280	305	360	415	435	250
65°	178	202	253	307	332	176
75°	84	106	146	194	216	90
85°	17	23	29	36	35	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	619.5	620.5	622.6	623.6	624.6
5°	616.4	618.4	620.5	621.5	622.6
7.5°	612.2	614.3	617.4	619.5	619.5
10°	606.0	608.1	612.2	615.3	615.3
12.5°	598.8	600.8	605.0	610.1	611.2
15°	589.4	592.5	598.8	603.9	605.0
17.5°	579.1	582.2	590.5	596.7	598.8
20°	566.6	570.8	580.1	589.4	591.5
22.5°	553.2	558.4	569.7	581.1	585.3
25°	538.7	543.8	557.3	572.9	578.0
27.5°	522.1	527.3	544.9	563.5	569.7
30°	503.4	511.7	531.4	553.2	562.5
32.5°	484.8	493.1	518.0	544.9	556.3
35°	465.1	474.4	503.4	536.6	552.1
37.5°	445.4	455.8	487.9	529.3	548.0
40°	421.6	435.1	471.3	522.1	540.7
42.5°	399.9	414.4	456.8	510.7	530.4
45°	376.0	393.6	441.3	496.2	515.9
47.5°	353.2	370.9	424.7	479.6	500.3
50°	328.4	349.1	405.0	461.0	482.7
52.5°	305.6	326.3	383.3	439.2	463.0
55°	279.7	304.6	360.5	415.4	435.1
57.5°	253.8	276.6	334.6	389.5	412.3
60°	231.0	251.7	308.7	362.6	384.3
62.5°	202.0	226.9	281.8	334.6	358.4
65°	178.2	202.0	252.8	306.6	331.5
67.5°	153.3	178.2	226.9	279.7	305.6
70°	129.5	152.3	198.9	251.7	277.6
72.5°	104.6	127.4	173.0	223.8	247.6
75°	83.9	105.7	146.1	193.7	216.5
77.5°	64.2	82.9	119.1	160.6	175.1
80°	45.6	61.1	91.2	113.9	121.2
82.5°	29.0	41.4	57.0	70.4	70.4
85°	16.6	22.8	29.0	36.3	35.2
87.5°	7.3	8.3	9.3	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)