

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: P220181

Luminaire Tested: **Z3-WN-1L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-1L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2002.6 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

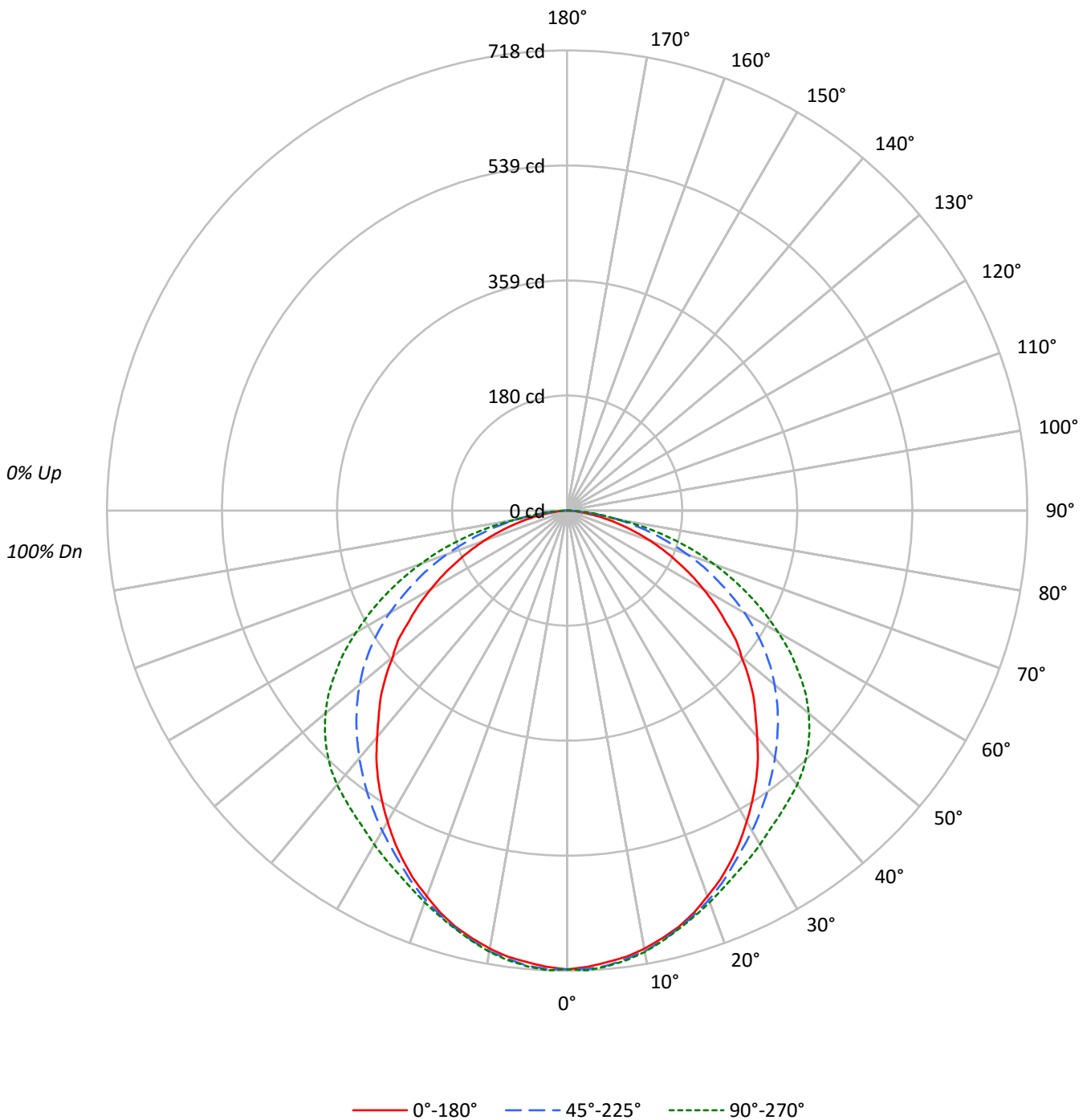
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1926	1926	1926
5°	1911	1925	1928
10°	1897	1908	1911
15°	1873	1879	1882
20°	1833	1851	1863
25°	1793	1815	1855
30°	1741	1793	1870
35°	1688	1780	1902
40°	1619	1772	1962
45°	1565	1770	2019
50°	1487	1769	2060
55°	1414	1759	2070
60°	1321	1723	2046
65°	1214	1656	1999
70°	1092	1573	1915
75°	916	1443	1756
80°	707	1268	1285
85°	513	865	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	3.4
10°-20°	190.1	9.5
20°-30°	282.8	14.1
30°-40°	340.6	17.0
40°-50°	360.7	18.0
50°-60°	333.5	16.7
60°-70°	254.0	12.7
70°-80°	141.4	7.1
80°-90°	32.2	1.6
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°	540.3	27.0
0°-40°	880.9	44.0
0°-60°	1575.0	78.7
0°-90°	2002.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	708	710	713	714	714	67
15°	672	673	674	675	675	189
25°	604	605	611	620	625	278
35°	514	519	542	569	579	321
45°	411	424	465	512	530	316
55°	301	326	375	424	441	270
65°	191	216	260	299	314	189
75°	88	108	139	162	169	94
85°	17	23	28	30	30	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.8	715.8	715.8	715.8	715.8
2.5°	712.7	713.7	715.8	717.9	717.9
5°	707.5	709.6	712.7	713.7	713.7
7.5°	702.3	703.4	705.5	707.5	707.5
10°	694.1	695.1	698.2	699.2	699.2
12.5°	683.7	684.7	686.8	687.8	687.8
15°	672.3	673.3	674.4	675.4	675.4
17.5°	657.8	658.8	660.9	663.0	663.0
20°	640.2	643.3	646.4	648.5	650.5
22.5°	623.6	624.6	629.8	635.0	637.1
25°	603.9	605.0	611.2	619.5	624.6
27.5°	583.2	586.3	593.6	608.1	613.3
30°	560.4	564.6	577.0	594.6	601.9
32.5°	537.6	541.8	559.4	581.1	589.4
35°	513.8	519.0	541.8	568.7	579.1
37.5°	488.9	495.2	523.1	555.2	568.7
40°	461.0	471.3	504.5	541.8	558.4
42.5°	435.1	447.5	484.8	527.3	545.9
45°	411.3	423.7	465.1	511.7	530.4
47.5°	384.3	399.9	444.4	494.1	512.8
50°	355.3	375.0	422.6	473.4	492.1
52.5°	332.5	350.1	399.9	450.6	469.3
55°	301.4	326.3	375.0	423.7	441.3
57.5°	274.5	297.3	348.1	395.7	413.3
60°	245.5	269.3	320.1	364.6	380.2
62.5°	218.6	241.4	290.1	333.6	348.1
65°	190.6	215.5	260.0	299.4	313.9
67.5°	163.7	187.5	231.0	267.3	278.7
70°	138.8	159.5	199.9	230.0	243.4
72.5°	111.9	132.6	167.8	195.8	207.2
75°	88.1	107.7	138.8	161.6	168.9
77.5°	65.3	83.9	108.8	126.4	129.5
80°	45.6	61.1	81.8	84.9	82.9
82.5°	29.0	40.4	51.8	52.8	52.8
85°	16.6	22.8	28.0	30.0	30.0
87.5°	6.2	8.3	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)