

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: P220295

Luminaire Tested: **Z3-WN-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)  
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-24  
Description: CLASS Z3 2X4 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: 2965.0 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

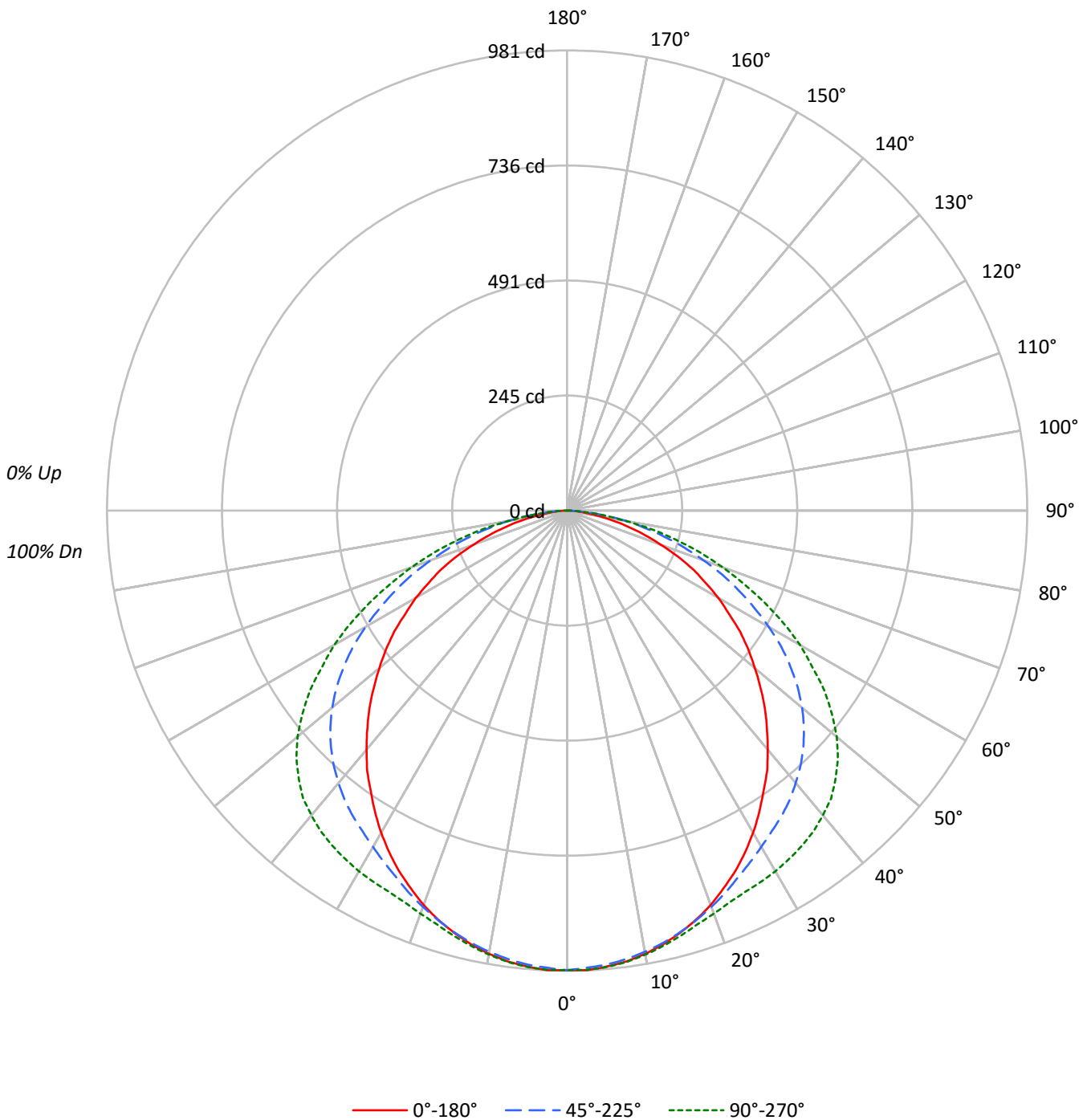
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1318	1318	1318
5°	1318	1312	1319
10°	1311	1305	1313
15°	1298	1296	1306
20°	1281	1287	1309
25°	1259	1280	1332
30°	1232	1286	1379
35°	1199	1307	1433
40°	1169	1332	1490
45°	1134	1355	1540
50°	1094	1369	1570
55°	1056	1365	1571
60°	1002	1337	1543
65°	942	1287	1478
70°	835	1212	1385
75°	705	1109	1247
80°	545	989	957
85°	378	678	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	3.1
10°-20°	263.4	8.9
20°-30°	401.1	13.5
30°-40°	500.1	16.9
40°-50°	544.5	18.4
50°-60°	509.2	17.2
60°-70°	388.3	13.1
70°-80°	215.4	7.3
80°-90°	50.5	1.7
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°	757.0	25.5
0°-40°	1257.1	42.4
0°-60°	2310.9	77.9
0°-90°	2965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	976	976	972	976	977	93
15°	932	932	931	937	938	263
25°	848	851	862	887	897	390
35°	730	746	796	852	872	457
45°	596	628	712	785	809	459
55°	450	494	582	649	670	401
65°	296	335	404	452	464	290
75°	136	172	213	238	240	146
85°	24	42	44	44	42	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	979.7	979.7	979.7	979.7	979.7
2.5°	980.7	978.7	975.6	978.7	979.7
5°	975.6	975.6	971.5	975.6	976.6
7.5°	969.5	968.5	964.4	969.5	970.5
10°	959.3	958.3	955.2	959.3	961.3
12.5°	947.0	946.0	944.0	950.1	950.1
15°	931.7	931.7	930.7	936.8	937.9
17.5°	914.4	914.4	915.4	922.6	924.6
20°	895.0	895.0	899.1	910.3	914.4
22.5°	871.5	873.6	881.7	897.0	904.2
25°	848.1	851.1	862.3	886.8	897.0
27.5°	821.5	826.6	845.0	878.7	893.0
30°	792.9	800.1	827.6	871.5	887.9
32.5°	762.3	772.5	811.3	862.3	880.7
35°	729.7	746.0	796.0	852.1	872.5
37.5°	700.1	716.4	778.7	839.9	862.3
40°	665.4	685.8	758.2	825.6	848.1
42.5°	630.7	658.2	736.8	807.2	832.7
45°	596.0	627.6	712.3	784.8	809.3
47.5°	559.2	595.0	684.8	758.2	782.7
50°	522.5	564.3	654.2	727.6	750.1
52.5°	486.8	530.7	619.5	690.9	711.3
55°	450.1	493.9	581.7	649.1	669.5
57.5°	408.2	460.3	541.9	603.1	619.5
60°	372.5	417.4	497.0	554.1	573.5
62.5°	331.7	378.6	450.1	506.2	520.5
65°	296.0	334.7	404.1	452.1	464.3
67.5°	254.1	293.9	358.2	398.0	407.2
70°	212.3	252.1	308.2	346.0	352.1
72.5°	174.5	212.3	261.3	291.9	297.0
75°	135.7	172.5	213.3	237.8	239.8
77.5°	103.1	135.7	168.4	185.7	186.8
80°	70.4	99.0	127.6	129.6	123.5
82.5°	44.9	68.4	82.7	79.6	79.6
85°	24.5	41.8	43.9	43.9	41.8
87.5°	10.2	16.3	16.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)