

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: P35873

Luminaire Tested: **Z3-WL-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35873  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-1L30-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2000.4 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

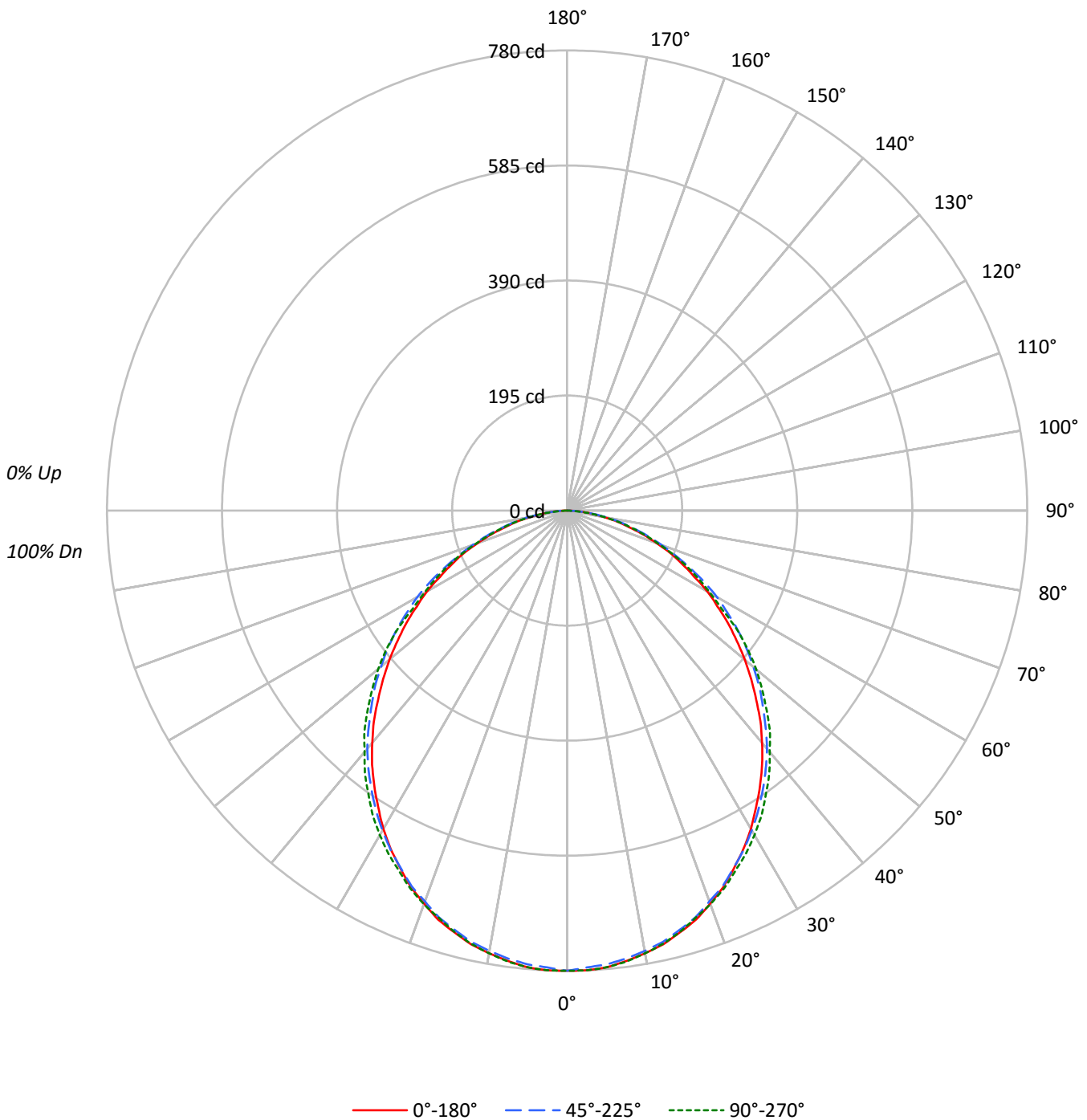
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	100	97	106	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

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

	0°	45°	90°
0°	2099	2099	2099
5°	2099	2085	2099
10°	2082	2071	2082
15°	2062	2050	2059
20°	2030	2019	2033
25°	1986	1983	2001
30°	1936	1945	1973
35°	1872	1899	1928
40°	1806	1851	1876
45°	1724	1785	1819
50°	1645	1725	1750
55°	1562	1656	1647
60°	1480	1577	1507
65°	1375	1458	1420
70°	1267	1338	1298
75°	1133	1206	1175
80°	992	1069	1007
85°	834	803	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	3.7
10°-20°	208.3	10.4
20°-30°	309.0	15.4
30°-40°	361.9	18.1
40°-50°	361.2	18.1
50°-60°	310.4	15.5
60°-70°	222.8	11.1
70°-80°	122.4	6.1
80°-90°	30.8	1.5
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°	590.9	29.5
0°-40°	952.8	47.6
0°-60°	1624.4	81.2
0°-90°	2000.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	777	776	772	777	777	74
15°	740	739	736	740	739	209
25°	669	669	668	674	674	308
35°	570	572	578	586	587	356
45°	453	458	469	478	478	350
55°	333	342	353	355	351	298
65°	216	226	229	225	223	214
75°	109	117	116	116	113	117
85°	27	28	26	23	24	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780	780	780	780	780
2.5°	780	779	775	780	780
5°	777	776	772	777	777
7.5°	770	770	766	770	771
10°	762	762	758	763	762
12.5°	753	751	749	753	752
15°	740	739	736	740	739
17.5°	727	725	723	726	724
20°	709	708	705	710	710
22.5°	691	690	689	693	694
25°	669	669	668	674	674
27.5°	647	647	648	655	656
30°	623	623	626	634	635
32.5°	596	598	603	612	613
35°	570	572	578	586	587
37.5°	543	545	553	561	563
40°	514	516	527	534	534
42.5°	485	488	498	507	509
45°	453	458	469	478	478
47.5°	423	430	442	450	448
50°	393	400	412	419	418
52.5°	362	370	383	388	386
55°	333	342	353	355	351
57.5°	302	312	322	322	311
60°	275	283	293	282	280
62.5°	243	255	262	252	252
65°	216	226	229	225	223
67.5°	190	198	198	196	195
70°	161	170	170	167	165
72.5°	135	144	143	143	139
75°	109	117	116	116	113
77.5°	87	91	93	90	89
80°	64	68	69	66	65
82.5°	43	47	47	45	43
85°	27	28	26	23	24
87.5°	12	11	9	6	6
90°	0	0	0	0	0

(END OF REPORT)