

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: P220029

Luminaire Tested: **Z3-WD-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-2L30-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2627.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

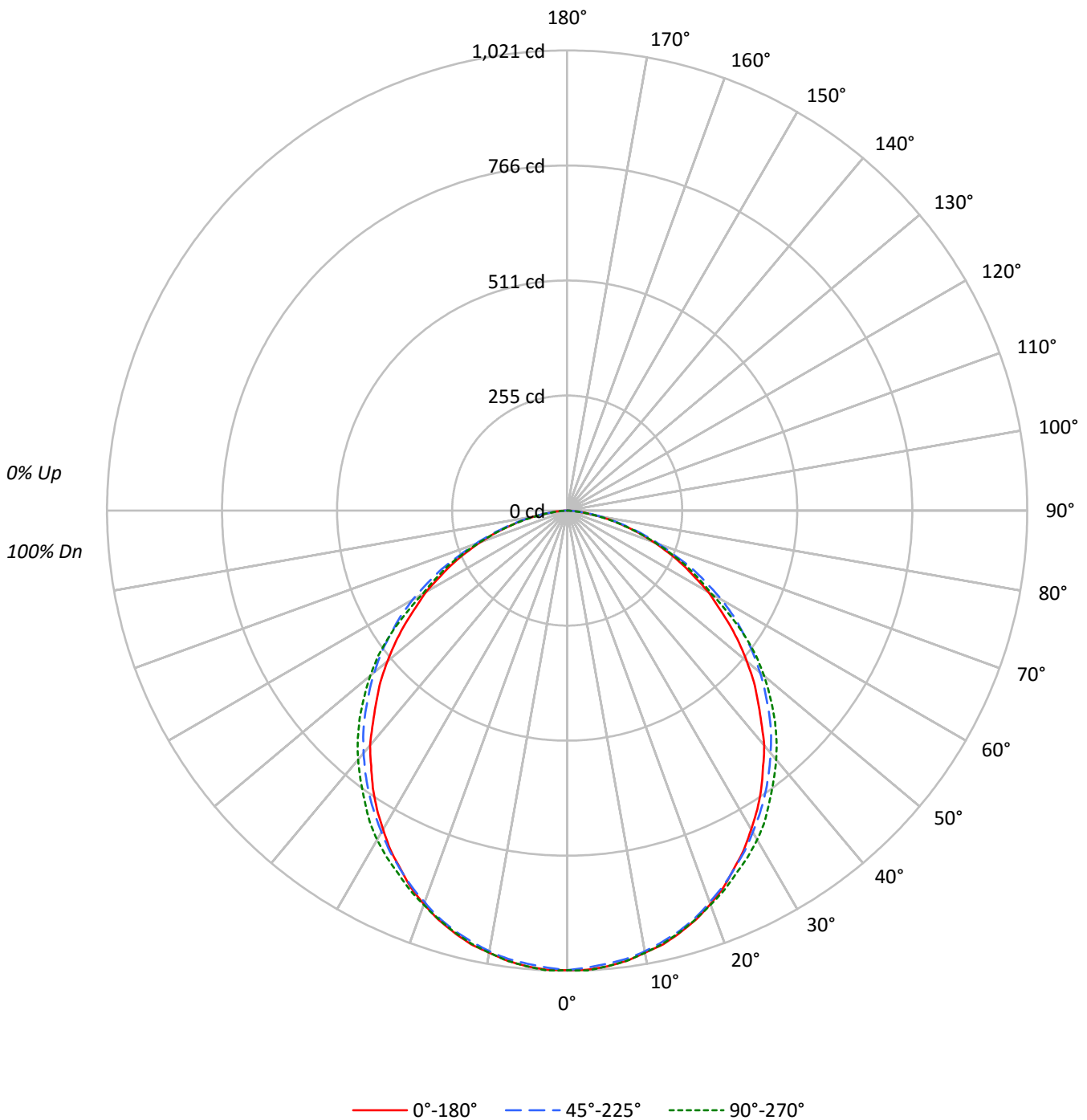
Input Watts (W): 23.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	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	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2744	2744	2744
5°	2742	2726	2742
10°	2722	2713	2722
15°	2700	2688	2696
20°	2661	2648	2666
25°	2601	2605	2636
30°	2537	2561	2620
35°	2468	2517	2576
40°	2390	2468	2536
45°	2279	2409	2476
50°	2178	2339	2389
55°	2058	2246	2246
60°	1946	2130	1994
65°	1793	1954	1859
70°	1609	1703	1633
75°	1371	1448	1371
80°	1080	1125	1057
85°	685	685	550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	3.7
10°-20°	272.7	10.4
20°-30°	405.9	15.4
30°-40°	479.9	18.3
40°-50°	484.6	18.4
50°-60°	419.0	15.9
60°-70°	292.5	11.1
70°-80°	147.5	5.6
80°-90°	29.4	1.1
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°	774.8	29.5
0°-40°	1254.7	47.8
0°-60°	2158.3	82.1
0°-90°	2627.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1015	1014	1009	1015	1015	96
15°	969	968	965	968	968	273
25°	876	877	877	886	888	404
35°	751	754	766	781	784	469
45°	599	608	633	649	651	463
55°	439	458	479	485	479	393
65°	282	299	307	290	292	278
75°	132	145	139	135	132	142
85°	22	25	22	19	18	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1019.7	1019.7	1019.7	1019.7	1019.7
2.5°	1019.7	1019.7	1015.2	1021.2	1021.2
5°	1015.2	1013.8	1009.3	1015.2	1015.2
7.5°	1007.8	1006.4	1003.4	1007.8	1007.8
10°	996.0	996.0	993.0	997.5	996.0
12.5°	985.6	984.1	979.7	984.1	984.1
15°	969.3	967.8	964.9	967.8	967.8
17.5°	951.5	948.5	947.1	950.0	950.0
20°	929.3	927.8	924.8	930.8	930.8
22.5°	905.6	902.6	902.6	908.5	911.5
25°	875.9	877.4	877.4	886.3	887.8
27.5°	849.2	849.2	852.2	862.6	867.0
30°	816.6	819.6	824.1	837.4	843.3
32.5°	785.5	790.0	795.9	812.2	816.6
35°	751.4	754.4	766.2	781.1	784.0
37.5°	714.4	717.3	735.1	751.4	752.9
40°	680.3	681.8	702.5	717.3	721.8
42.5°	637.3	647.7	669.9	684.7	687.7
45°	598.8	607.7	632.9	649.2	650.6
47.5°	561.7	570.6	595.8	609.1	610.6
50°	520.2	532.1	558.8	569.1	570.6
52.5°	480.2	495.0	520.2	529.1	527.6
55°	438.7	458.0	478.7	484.6	478.7
57.5°	397.2	419.4	438.7	437.2	423.9
60°	361.6	377.9	395.7	382.4	370.5
62.5°	318.7	339.4	349.8	332.0	330.5
65°	281.6	299.4	306.8	290.5	292.0
67.5°	241.6	259.4	256.4	252.0	249.0
70°	204.5	222.3	216.4	210.5	207.5
72.5°	169.0	183.8	177.9	173.4	169.0
75°	131.9	145.2	139.3	134.9	131.9
77.5°	100.8	108.2	105.2	100.8	97.8
80°	69.7	77.1	72.6	68.2	68.2
82.5°	43.0	48.9	44.5	41.5	40.0
85°	22.2	25.2	22.2	19.3	17.8
87.5°	8.9	8.9	5.9	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)