

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: P220161

Luminaire Tested: **Z3-WD-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-4L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3129.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

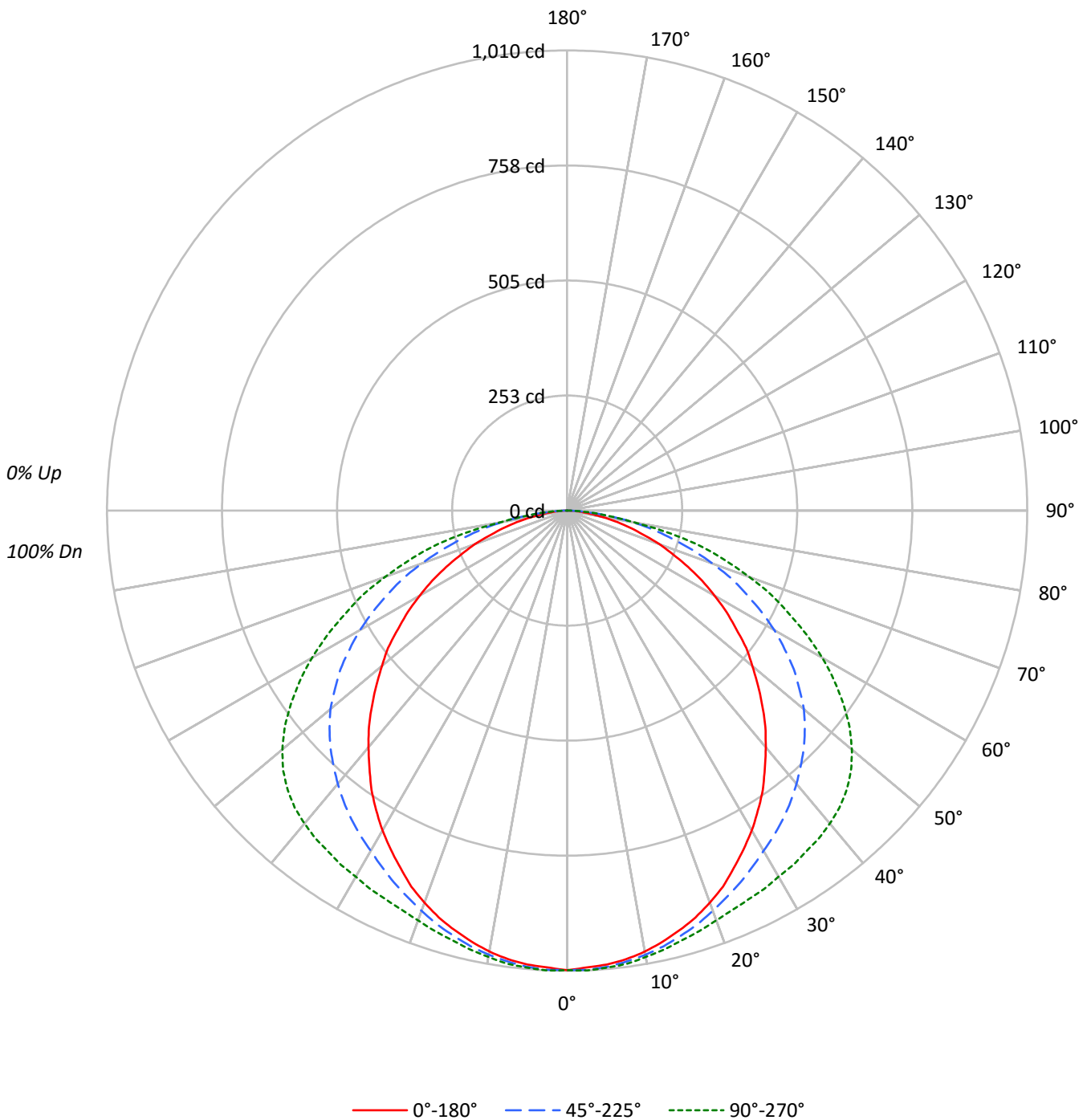
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	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	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	2714	2714	2714
5°	2702	2715	2720
10°	2686	2705	2719
15°	2657	2690	2719
20°	2622	2677	2741
25°	2571	2673	2796
30°	2519	2680	2883
35°	2460	2714	3003
40°	2382	2751	3150
45°	2306	2797	3301
50°	2220	2839	3416
55°	2124	2851	3473
60°	2010	2826	3483
65°	1863	2762	3431
70°	1693	2668	3345
75°	1467	2488	3186
80°	1147	2241	2321
85°	849	1541	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	3.0
10°-20°	272.6	8.7
20°-30°	416.4	13.3
30°-40°	518.6	16.6
40°-50°	567.0	18.1
50°-60°	537.8	17.2
60°-70°	421.3	13.5
70°-80°	243.6	7.8
80°-90°	57.1	1.8
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°	784.5	25.1
0°-40°	1303.1	41.6
0°-60°	2407.9	76.9
0°-90°	3129.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1000	1002	1005	1007	1007	95
15°	954	957	966	974	976	269
25°	866	874	900	930	942	399
35°	749	766	826	890	914	467
45°	606	642	735	830	868	467
55°	453	508	608	704	740	406
65°	293	344	434	511	539	290
75°	141	179	239	286	306	149
85°	28	40	50	53	53	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1008.7	1008.7	1008.7	1008.7	1008.7
2.5°	1003.5	1005.2	1008.7	1010.4	1010.4
5°	1000.1	1001.8	1005.2	1007.0	1007.0
7.5°	993.2	994.9	998.4	1001.8	1003.5
10°	982.9	984.6	989.8	994.9	994.9
12.5°	969.1	972.5	979.4	984.6	986.3
15°	953.6	957.0	965.7	974.3	976.0
17.5°	936.4	941.6	951.9	962.2	967.4
20°	915.7	919.2	934.7	950.2	957.0
22.5°	893.4	898.5	917.5	939.8	948.4
25°	865.8	874.4	900.2	929.5	941.6
27.5°	838.3	850.3	881.3	920.9	936.4
30°	810.7	822.8	862.4	910.6	927.8
32.5°	779.8	795.2	845.2	900.2	922.6
35°	748.8	766.0	826.2	889.9	914.0
37.5°	712.6	735.0	805.6	877.9	907.1
40°	678.2	702.3	783.2	864.1	896.8
42.5°	643.8	671.3	759.1	848.6	884.8
45°	605.9	642.0	735.0	829.7	867.5
47.5°	568.0	609.3	707.5	807.3	845.2
50°	530.2	573.2	678.2	779.8	815.9
52.5°	495.7	538.8	642.0	743.6	781.5
55°	452.7	507.8	607.6	704.0	740.2
57.5°	414.8	464.8	566.3	661.0	695.4
60°	373.5	423.4	525.0	614.5	647.2
62.5°	333.9	382.1	480.2	564.6	593.9
65°	292.6	344.3	433.8	511.2	538.8
67.5°	251.3	299.5	390.7	457.9	487.1
70°	215.2	259.9	339.1	401.1	425.2
72.5°	173.9	216.9	289.2	344.3	364.9
75°	141.1	179.0	239.3	285.7	306.4
77.5°	106.7	142.9	192.8	223.8	232.4
80°	74.0	105.0	144.6	156.6	149.8
82.5°	48.2	72.3	93.0	96.4	94.7
85°	27.5	39.6	49.9	53.4	53.4
87.5°	12.0	15.5	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)