

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: P220177

Luminaire Tested: **Z3-WN-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220177  
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-3L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2877.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

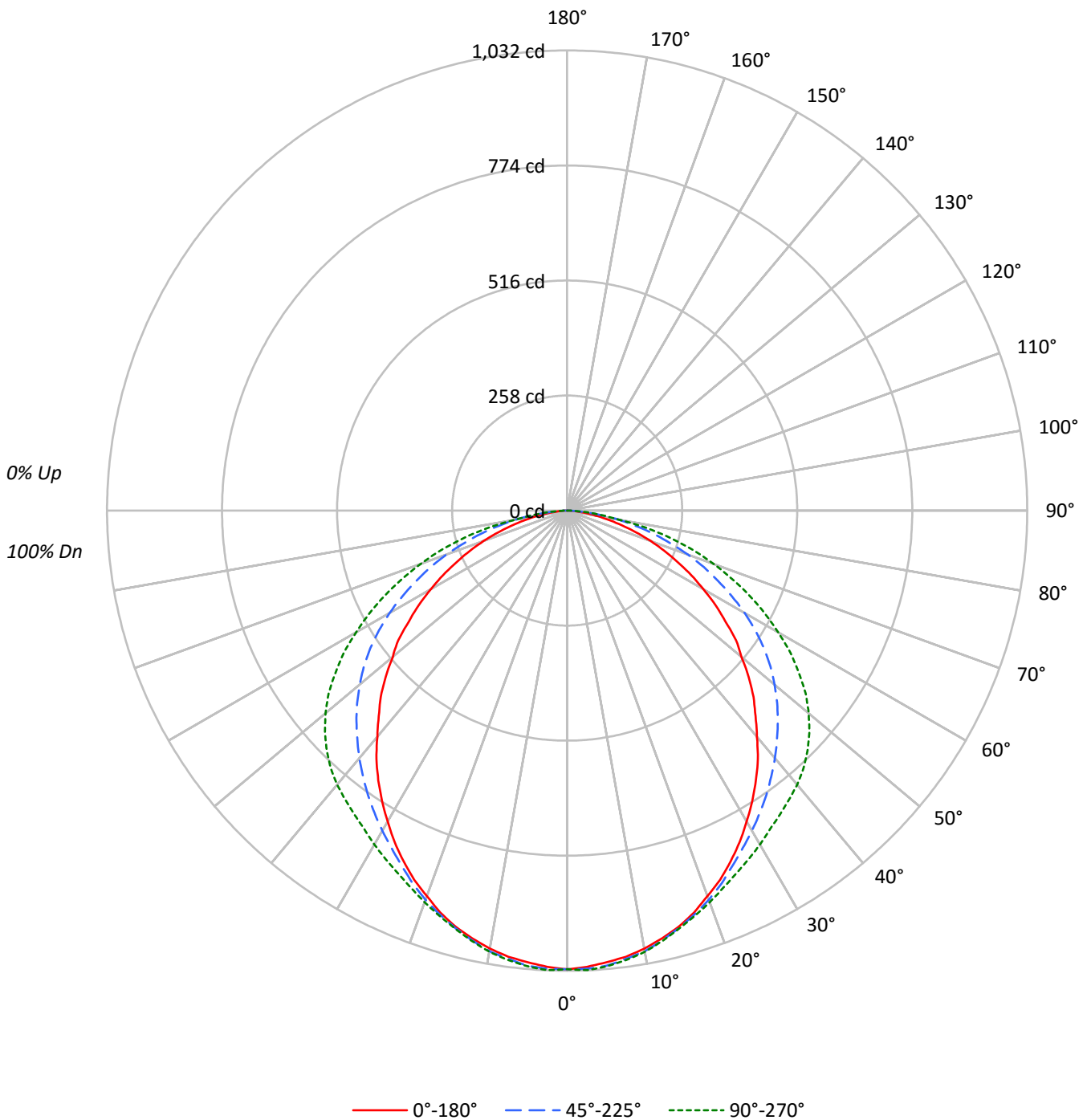
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2768	2768	2768
5°	2746	2767	2771
10°	2725	2742	2746
15°	2691	2700	2704
20°	2635	2660	2677
25°	2577	2608	2665
30°	2502	2577	2687
35°	2426	2558	2734
40°	2327	2547	2819
45°	2249	2544	2901
50°	2138	2543	2960
55°	2032	2528	2975
60°	1899	2476	2940
65°	1744	2379	2872
70°	1570	2260	2752
75°	1315	2074	2522
80°	1015	1822	1846
85°	735	1241	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.4
10°-20°	273.2	9.5
20°-30°	406.4	14.1
30°-40°	489.4	17.0
40°-50°	518.3	18.0
50°-60°	479.2	16.7
60°-70°	364.9	12.7
70°-80°	203.1	7.1
80°-90°	46.2	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°	776.5	27.0
0°-40°	1265.9	44.0
0°-60°	2263.4	78.7
0°-90°	2877.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1017	1020	1024	1026	1026	97
15°	966	968	969	971	971	272
25°	868	869	878	890	898	399
35°	738	746	779	817	832	461
45°	591	609	668	735	762	454
55°	433	469	539	609	634	388
65°	274	310	374	430	451	272
75°	126	155	200	232	243	135
85°	24	33	40	43	43	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1024.2	1025.7	1028.6	1031.6	1031.6
5°	1016.7	1019.7	1024.2	1025.7	1025.7
7.5°	1009.3	1010.8	1013.8	1016.7	1016.7
10°	997.4	998.9	1003.3	1004.8	1004.8
12.5°	982.5	984.0	987.0	988.4	988.4
15°	966.1	967.6	969.1	970.6	970.6
17.5°	945.3	946.8	949.7	952.7	952.7
20°	920.0	924.4	928.9	931.9	934.9
22.5°	896.2	897.6	905.1	912.5	915.5
25°	867.9	869.4	878.3	890.2	897.6
27.5°	838.1	842.6	853.0	873.8	881.3
30°	805.3	811.3	829.2	854.5	864.9
32.5°	772.6	778.6	803.9	835.1	847.0
35°	738.4	745.8	778.6	817.3	832.1
37.5°	702.6	711.6	751.8	797.9	817.3
40°	662.4	677.3	725.0	778.6	802.4
42.5°	625.2	643.1	696.7	757.7	784.5
45°	591.0	608.8	668.4	735.4	762.2
47.5°	552.3	574.6	638.6	710.1	736.9
50°	510.6	538.9	607.4	680.3	707.1
52.5°	477.8	503.2	574.6	647.6	674.3
55°	433.2	468.9	538.9	608.8	634.2
57.5°	394.5	427.2	500.2	568.7	594.0
60°	352.8	387.0	460.0	524.0	546.3
62.5°	314.1	346.8	416.8	479.3	500.2
65°	273.9	309.6	373.6	430.2	451.1
67.5°	235.2	269.4	332.0	384.1	400.4
70°	199.5	229.2	287.3	330.5	349.8
72.5°	160.8	190.5	241.2	281.4	297.7
75°	126.5	154.8	199.5	232.2	242.6
77.5°	93.8	120.6	156.3	181.6	186.1
80°	65.5	87.8	117.6	122.1	119.1
82.5°	41.7	58.1	74.4	75.9	75.9
85°	23.8	32.7	40.2	43.2	43.2
87.5°	8.9	11.9	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)