

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: P220167

Luminaire Tested: **Z3-WD-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220167  
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-4L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3242.3 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

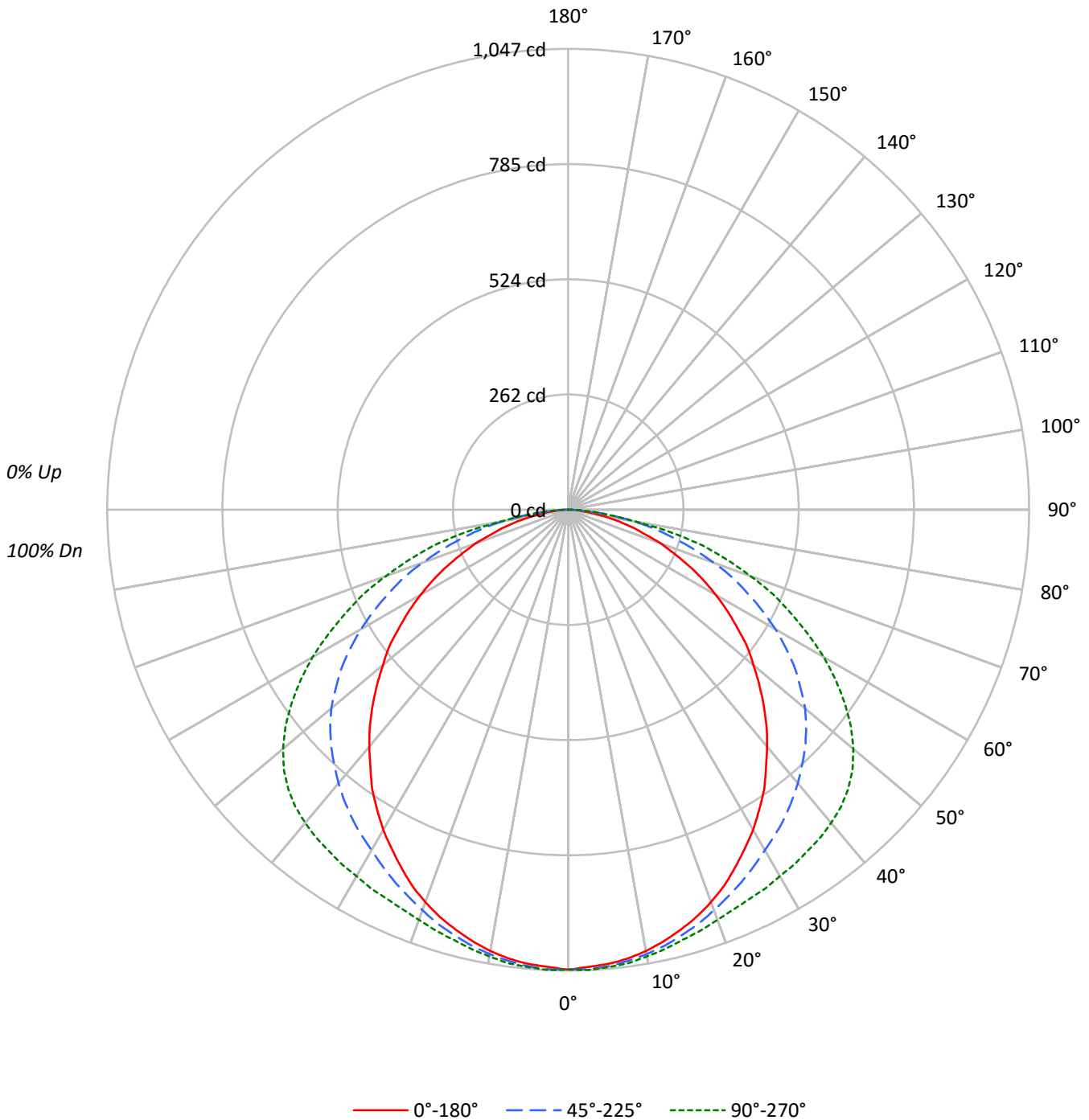
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2812	2812	2812
5°	2799	2813	2818
10°	2782	2802	2816
15°	2752	2787	2817
20°	2716	2773	2839
25°	2663	2769	2896
30°	2609	2776	2986
35°	2548	2812	3110
40°	2468	2850	3263
45°	2389	2898	3420
50°	2299	2941	3538
55°	2200	2953	3597
60°	2082	2927	3608
65°	1930	2861	3554
70°	1754	2764	3465
75°	1520	2577	3300
80°	1189	2321	2404
85°	880	1596	1707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	3.0
10°-20°	282.4	8.7
20°-30°	431.4	13.3
30°-40°	537.2	16.6
40°-50°	587.4	18.1
50°-60°	557.1	17.2
60°-70°	436.4	13.5
70°-80°	252.3	7.8
80°-90°	59.2	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°	812.6	25.1
0°-40°	1349.9	41.6
0°-60°	2494.3	76.9
0°-90°	3242.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3242.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1036	1038	1041	1043	1043	98
15°	988	991	1000	1009	1011	279
25°	897	906	933	963	975	413
35°	776	794	856	922	947	484
45°	628	665	761	860	899	484
55°	469	526	629	729	767	420
65°	303	357	449	530	558	300
75°	146	185	248	296	317	155
85°	28	41	52	55	55	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1044.9	1044.9	1044.9	1044.9	1044.9
2.5°	1039.6	1041.3	1044.9	1046.7	1046.7
5°	1036.0	1037.8	1041.3	1043.1	1043.1
7.5°	1028.9	1030.6	1034.2	1037.8	1039.6
10°	1018.2	1019.9	1025.3	1030.6	1030.6
12.5°	1003.9	1007.5	1014.6	1019.9	1021.7
15°	987.8	991.4	1000.3	1009.2	1011.0
17.5°	970.0	975.4	986.1	996.8	1002.1
20°	948.6	952.2	968.2	984.3	991.4
22.5°	925.4	930.8	950.4	973.6	982.5
25°	896.9	905.8	932.6	962.9	975.4
27.5°	868.4	880.9	913.0	954.0	970.0
30°	839.8	852.3	893.3	943.3	961.1
32.5°	807.7	823.8	875.5	932.6	955.7
35°	775.7	793.5	855.9	921.9	946.8
37.5°	738.2	761.4	834.5	909.4	939.7
40°	702.5	727.5	811.3	895.1	929.0
42.5°	666.9	695.4	786.4	879.1	916.5
45°	627.7	665.1	761.4	859.5	898.7
47.5°	588.4	631.2	732.9	836.3	875.5
50°	549.2	593.8	702.5	807.7	845.2
52.5°	513.5	558.1	665.1	770.3	809.5
55°	469.0	526.0	629.4	729.3	766.7
57.5°	429.7	481.4	586.6	684.7	720.4
60°	386.9	438.6	543.8	636.6	670.4
62.5°	345.9	395.8	497.5	584.9	615.2
65°	303.1	356.6	449.3	529.6	558.1
67.5°	260.3	310.3	404.8	474.3	504.6
70°	222.9	269.2	351.3	415.5	440.4
72.5°	180.1	224.7	299.6	356.6	378.0
75°	146.2	185.4	247.9	296.0	317.4
77.5°	110.6	148.0	199.7	231.8	240.7
80°	76.7	108.8	149.8	162.3	155.1
82.5°	49.9	74.9	96.3	99.9	98.1
85°	28.5	41.0	51.7	55.3	55.3
87.5°	12.5	16.0	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)