

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: P220173

Luminaire Tested: **Z3-WD-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220173
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-4L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.8 lumens
Efficiency: N/A
Efficacy: 109.7 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

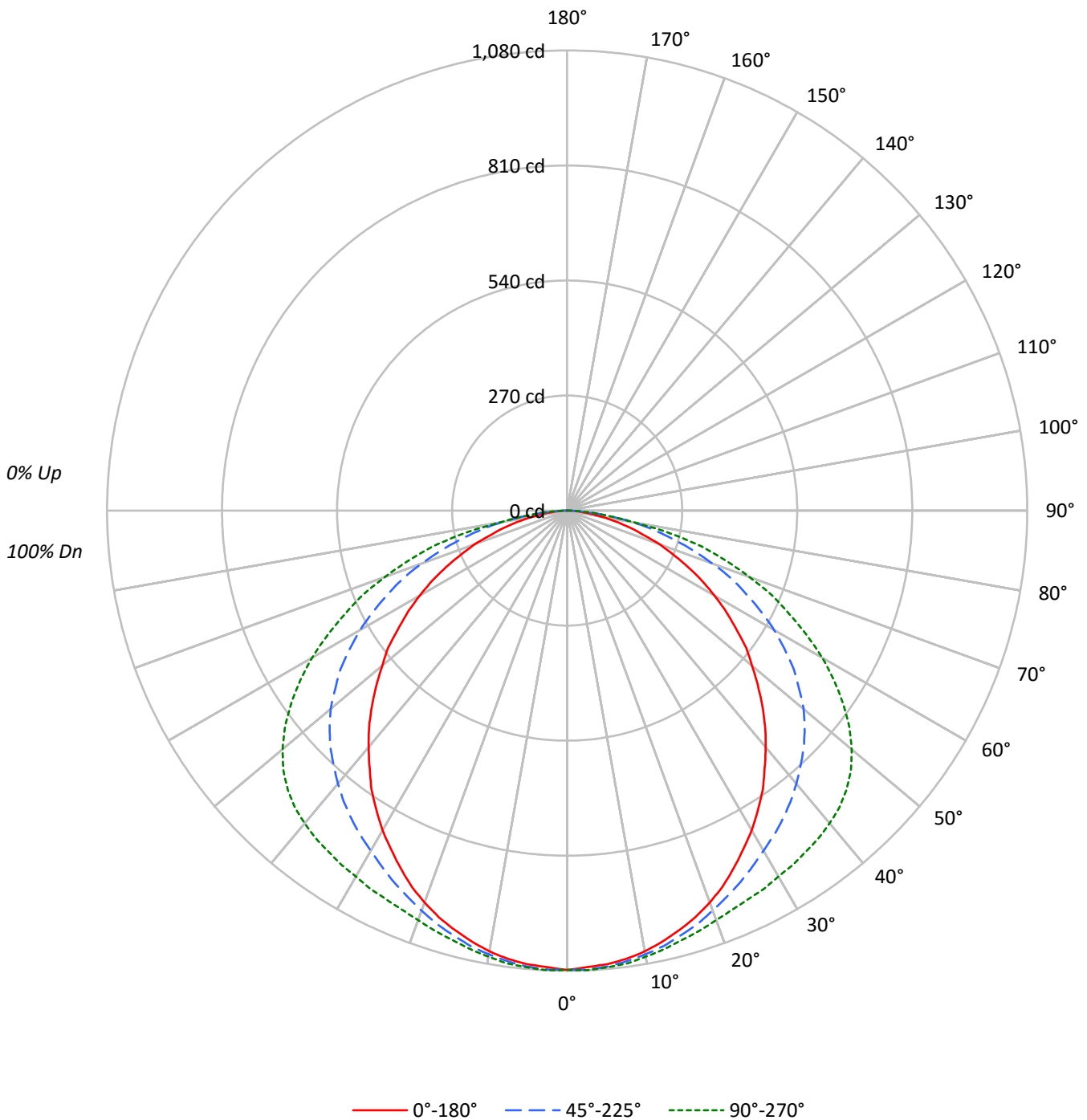
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2901	2901	2901
5°	2887	2902	2907
10°	2870	2890	2905
15°	2839	2875	2906
20°	2802	2861	2929
25°	2747	2857	2988
30°	2692	2864	3081
35°	2629	2901	3209
40°	2546	2940	3367
45°	2464	2989	3528
50°	2372	3034	3650
55°	2270	3046	3711
60°	2148	3020	3723
65°	1991	2952	3666
70°	1809	2851	3575
75°	1568	2659	3404
80°	1226	2394	2479
85°	908	1646	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.0
10°-20°	291.4	8.7
20°-30°	445.0	13.3
30°-40°	554.2	16.6
40°-50°	606.0	18.1
50°-60°	574.7	17.2
60°-70°	450.2	13.5
70°-80°	260.3	7.8
80°-90°	61.0	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°	838.3	25.1
0°-40°	1392.6	41.6
0°-60°	2573.3	76.9
0°-90°	3344.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1069	1071	1074	1076	1076	101
15°	1019	1023	1032	1041	1043	287
25°	925	934	962	993	1006	426
35°	800	819	883	951	977	499
45°	648	686	786	887	927	499
55°	484	543	649	752	791	434
65°	313	368	464	546	576	310
75°	151	191	256	305	327	159
85°	29	42	53	57	57	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1072.4	1074.3	1078.0	1079.8	1079.8
5°	1068.8	1070.6	1074.3	1076.1	1076.1
7.5°	1061.4	1063.2	1066.9	1070.6	1072.4
10°	1050.4	1052.2	1057.7	1063.2	1063.2
12.5°	1035.6	1039.3	1046.7	1052.2	1054.0
15°	1019.1	1022.8	1032.0	1041.2	1043.0
17.5°	1000.7	1006.2	1017.2	1028.3	1033.8
20°	978.6	982.3	998.9	1015.4	1022.8
22.5°	954.7	960.2	980.5	1004.4	1013.6
25°	925.3	934.5	962.1	993.3	1006.2
27.5°	895.8	908.7	941.8	984.1	1000.7
30°	866.4	879.3	921.6	973.1	991.5
32.5°	833.3	849.9	903.2	962.1	986.0
35°	800.2	818.6	883.0	951.0	976.8
37.5°	761.6	785.5	860.9	938.2	969.4
40°	724.8	750.5	837.0	923.4	958.4
42.5°	688.0	717.4	811.2	906.9	945.5
45°	647.5	686.1	785.5	886.6	927.1
47.5°	607.0	651.2	756.0	862.7	903.2
50°	566.6	612.6	724.8	833.3	871.9
52.5°	529.8	575.8	686.1	794.7	835.1
55°	483.8	542.7	649.3	752.4	791.0
57.5°	443.3	496.7	605.2	706.4	743.2
60°	399.2	452.5	561.1	656.7	691.7
62.5°	356.9	408.4	513.2	603.4	634.6
65°	312.7	367.9	463.6	546.3	575.8
67.5°	268.6	320.1	417.6	489.3	520.6
70°	229.9	277.8	362.4	428.6	454.4
72.5°	185.8	231.8	309.0	367.9	390.0
75°	150.8	191.3	255.7	305.4	327.4
77.5°	114.0	152.7	206.0	239.1	248.3
80°	79.1	112.2	154.5	167.4	160.0
82.5°	51.5	77.3	99.3	103.0	101.2
85°	29.4	42.3	53.3	57.0	57.0
87.5°	12.9	16.6	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)