

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: P220286

Luminaire Tested: **Z3-WD-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-1L40-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2999.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

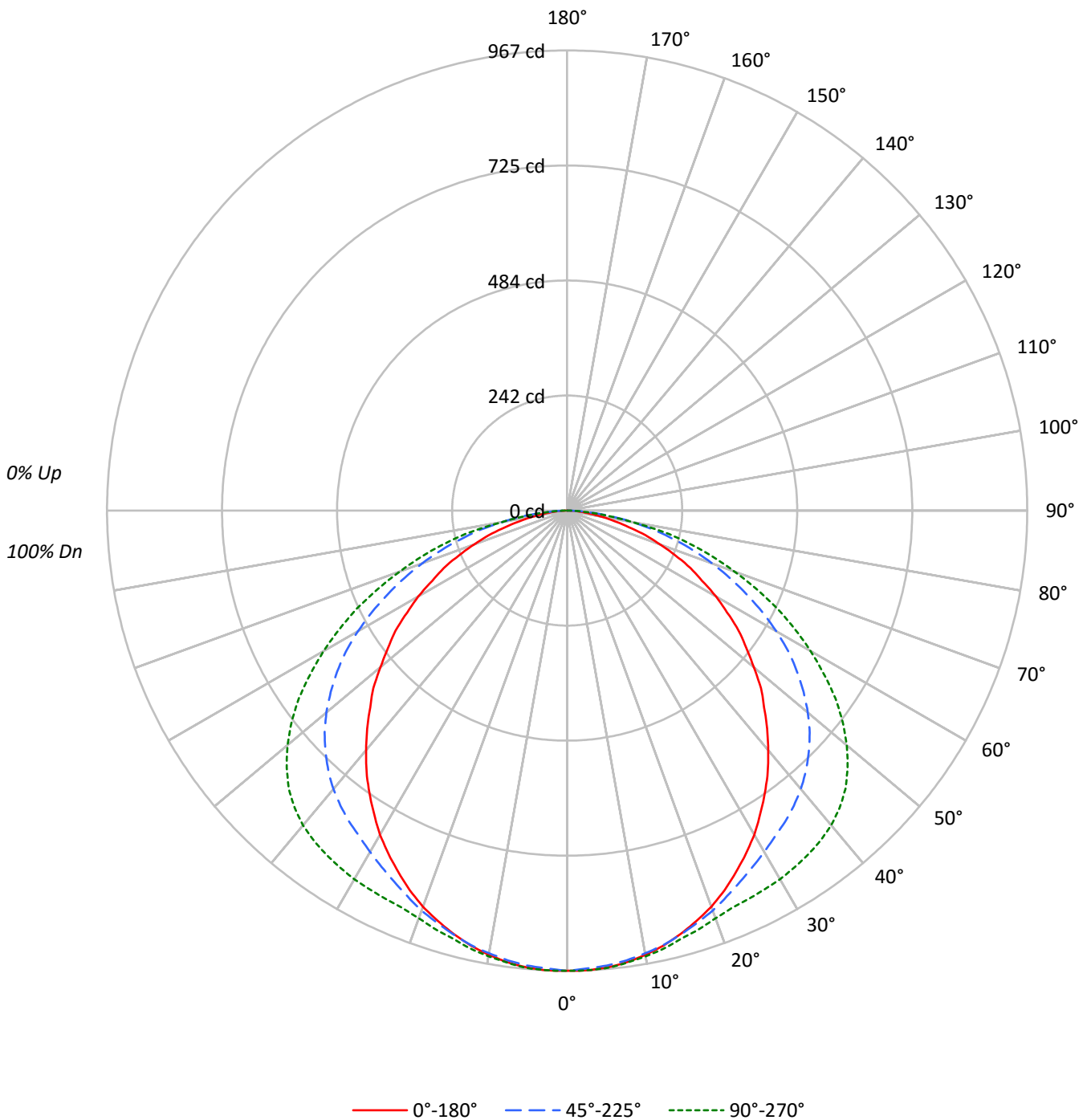
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	48	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	28	54	41	33	27	40	32	27		39	32	27		38	32	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°	1301	1301	1301
5°	1302	1296	1303
10°	1295	1291	1299
15°	1283	1285	1297
20°	1268	1281	1305
25°	1245	1277	1337
30°	1222	1287	1390
35°	1190	1311	1450
40°	1154	1342	1517
45°	1114	1366	1574
50°	1072	1382	1606
55°	1033	1384	1614
60°	972	1366	1590
65°	912	1323	1551
70°	816	1274	1471
75°	695	1200	1372
80°	555	1076	1076
85°	395	775	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	3.0
10°-20°	261.2	8.7
20°-30°	400.0	13.3
30°-40°	501.4	16.7
40°-50°	548.2	18.3
50°-60°	514.8	17.2
60°-70°	397.5	13.3
70°-80°	228.6	7.6
80°-90°	56.0	1.9
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°	752.5	25.1
0°-40°	1253.9	41.8
0°-60°	2317.0	77.3
0°-90°	2999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	964	962	960	963	965	91
15°	921	922	922	930	931	260
25°	839	844	860	888	901	387
35°	725	741	798	861	883	453
45°	586	622	718	799	827	452
55°	440	490	590	666	688	391
65°	286	336	416	470	487	281
75°	134	178	231	259	264	144
85°	26	47	50	48	48	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	967.1	967.1	967.1	967.1	967.1
2.5°	967.1	966.1	962.9	966.1	967.1
5°	963.9	961.8	959.7	962.9	965.0
7.5°	957.5	956.5	953.3	958.6	958.6
10°	947.9	946.8	944.7	950.0	951.1
12.5°	936.2	935.1	935.1	941.5	942.6
15°	921.2	922.3	922.3	929.7	930.8
17.5°	904.1	904.1	908.4	918.0	922.3
20°	885.9	887.0	894.5	906.2	911.6
22.5°	863.5	867.8	877.4	896.6	904.1
25°	838.9	844.2	860.3	888.1	900.9
27.5°	813.3	820.7	844.2	881.7	897.7
30°	786.5	796.2	828.2	876.3	894.5
32.5°	755.5	768.4	812.2	868.8	889.1
35°	724.6	740.6	798.3	861.3	882.7
37.5°	692.5	710.7	782.3	849.6	874.2
40°	657.2	682.9	764.1	836.8	863.5
42.5°	622.0	653.0	742.7	820.7	847.5
45°	585.6	622.0	718.1	799.4	827.1
47.5°	552.5	591.0	691.4	772.6	799.4
50°	511.9	560.0	660.4	741.7	767.3
52.5°	474.5	526.9	626.2	706.4	729.9
55°	440.3	490.5	589.9	665.8	688.2
57.5°	398.6	453.1	551.4	622.0	640.1
60°	361.2	414.6	507.6	572.8	591.0
62.5°	319.5	379.4	462.7	523.6	539.7
65°	286.4	335.6	415.7	470.2	487.3
67.5°	245.8	295.0	369.8	417.8	429.6
70°	207.3	254.3	323.8	364.4	374.0
72.5°	173.1	214.8	277.9	311.0	319.5
75°	133.6	178.5	230.8	258.6	264.0
77.5°	101.5	141.1	185.9	204.1	208.4
80°	71.6	107.9	138.9	146.4	138.9
82.5°	46.0	75.9	95.1	90.8	87.6
85°	25.6	47.0	50.2	48.1	48.1
87.5°	10.7	17.1	17.1	16.0	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)