

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: P220258

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-1L40-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3237.6 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

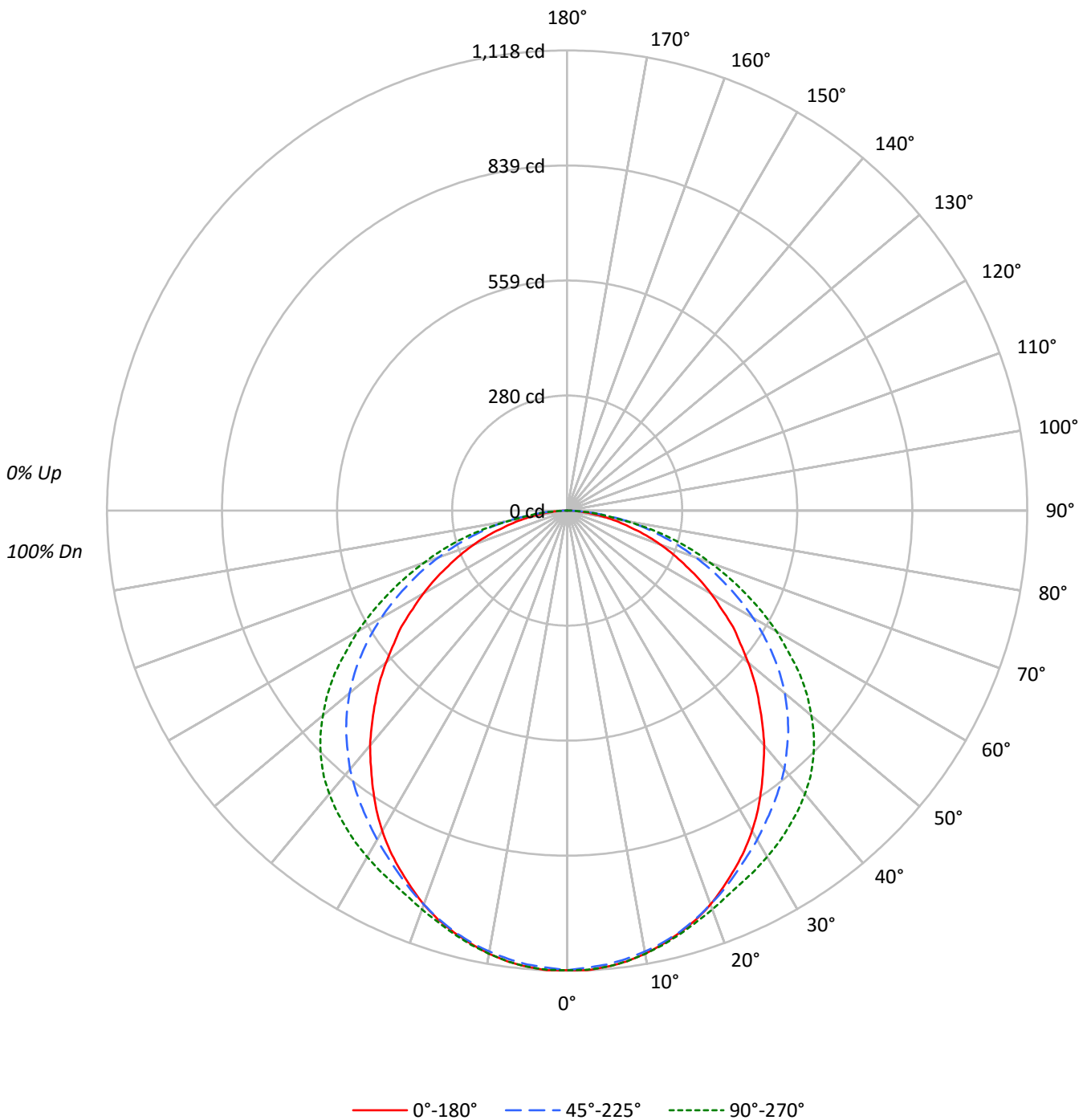
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1503	1503	1503
5°	1503	1495	1503
10°	1494	1486	1494
15°	1478	1475	1483
20°	1458	1458	1477
25°	1428	1442	1483
30°	1396	1434	1509
35°	1352	1434	1541
40°	1308	1441	1579
45°	1255	1446	1611
50°	1201	1445	1622
55°	1153	1431	1617
60°	1087	1403	1582
65°	1014	1358	1524
70°	946	1303	1455
75°	839	1233	1367
80°	737	1151	1093
85°	627	908	891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	3.3
10°-20°	299.5	9.3
20°-30°	451.0	13.9
30°-40°	549.5	17.0
40°-50°	582.5	18.0
50°-60°	535.3	16.5
60°-70°	410.1	12.7
70°-80°	239.6	7.4
80°-90°	64.6	2.0
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°	855.9	26.4
0°-40°	1405.4	43.4
0°-60°	2523.3	77.9
0°-90°	3237.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1112	1110	1107	1112	1112	106
15°	1061	1061	1059	1064	1064	299
25°	962	966	971	992	999	443
35°	823	834	873	921	938	515
45°	659	685	760	825	846	509
55°	492	530	610	670	689	437
65°	318	360	426	470	479	317
75°	161	198	237	261	263	174
85°	41	57	59	60	58	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1117.8	1115.7	1111.4	1116.8	1116.8
5°	1112.5	1110.3	1107.1	1112.5	1112.5
7.5°	1105.0	1102.9	1098.6	1105.0	1105.0
10°	1093.2	1092.2	1087.9	1094.3	1093.2
12.5°	1078.3	1078.3	1075.1	1080.4	1080.4
15°	1061.2	1061.2	1059.1	1064.4	1064.4
17.5°	1042.0	1042.0	1039.8	1047.3	1047.3
20°	1018.4	1016.3	1018.4	1029.1	1031.3
22.5°	990.7	991.7	996.0	1009.9	1014.2
25°	961.8	966.1	971.4	991.7	999.2
27.5°	931.9	936.2	946.8	975.7	986.4
30°	898.8	904.1	923.3	958.6	971.4
32.5°	862.4	871.0	897.7	941.5	956.5
35°	822.9	833.6	873.1	921.2	938.3
37.5°	783.3	798.3	847.5	902.0	920.1
40°	744.9	760.9	820.7	879.5	898.8
42.5°	702.1	723.5	789.7	852.8	875.2
45°	659.4	685.0	759.8	825.0	846.4
47.5°	618.8	646.5	725.6	793.0	813.3
50°	573.9	610.2	690.4	754.5	774.8
52.5°	530.1	569.6	651.9	717.1	734.2
55°	491.6	530.1	610.2	670.1	689.3
57.5°	444.6	490.5	566.4	623.0	635.9
60°	404.0	443.5	521.5	573.9	587.8
62.5°	362.3	405.0	475.6	520.4	534.3
65°	318.5	360.1	426.4	470.2	478.8
67.5°	280.0	320.6	381.5	414.6	425.3
70°	240.5	275.7	331.3	364.4	369.8
72.5°	202.0	237.2	285.3	311.0	318.5
75°	161.4	197.7	237.2	260.8	262.9
77.5°	128.2	159.2	193.4	206.3	207.3
80°	95.1	122.9	148.5	147.5	141.1
82.5°	65.2	86.6	100.5	98.3	94.0
85°	40.6	56.6	58.8	59.8	57.7
87.5°	18.2	22.4	24.6	24.6	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)