

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: P220002

Luminaire Tested: **Z3-WL-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-3L30-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4011.2 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

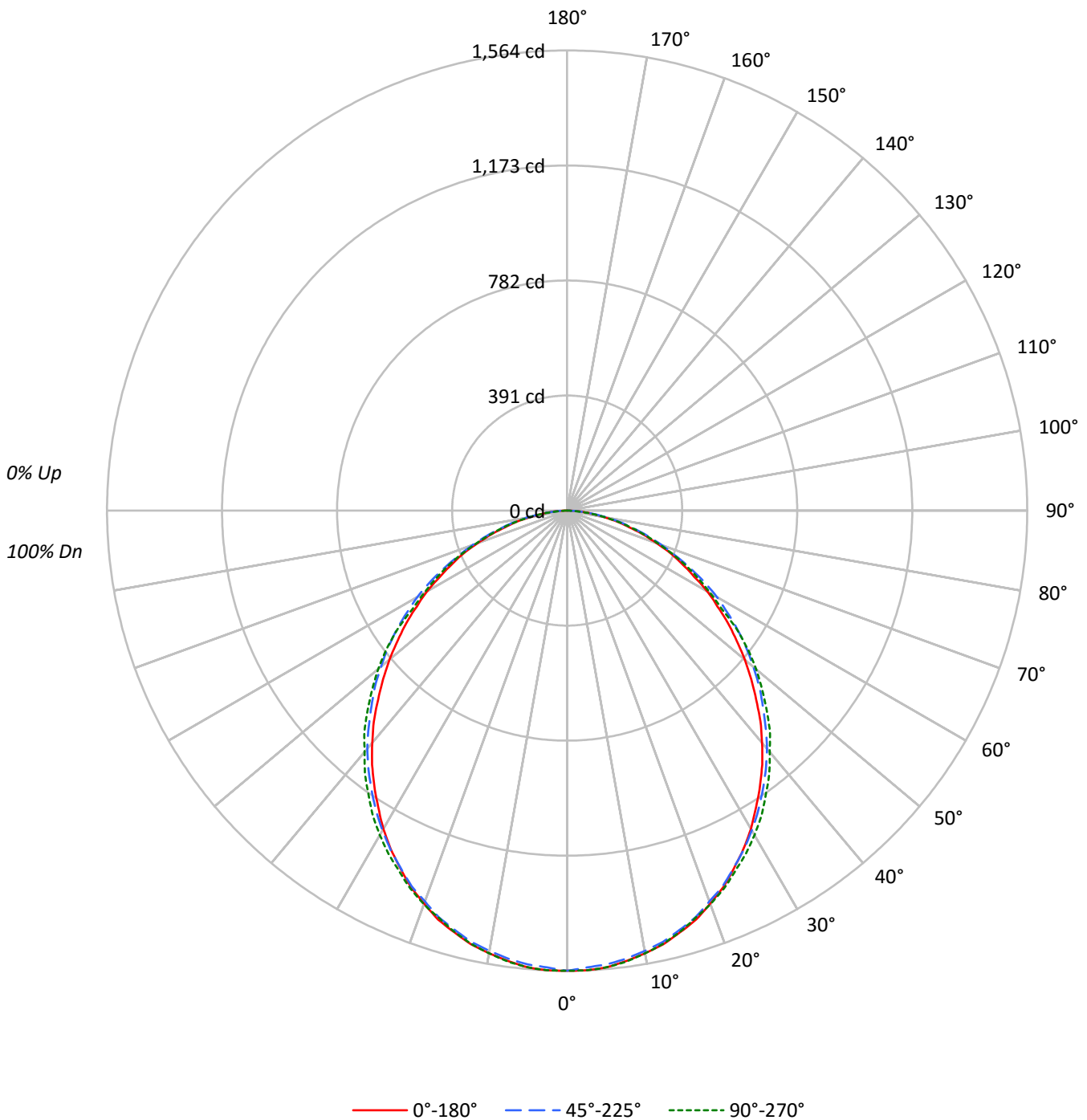
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	4209	4209	4209
5°	4209	4182	4209
10°	4175	4153	4175
15°	4134	4111	4128
20°	4071	4048	4077
25°	3983	3977	4013
30°	3882	3900	3956
35°	3755	3807	3867
40°	3621	3712	3762
45°	3457	3579	3648
50°	3299	3458	3509
55°	3133	3321	3302
60°	2968	3162	3021
65°	2758	2924	2848
70°	2540	2682	2603
75°	2273	2418	2356
80°	1988	2145	2019
85°	1670	1609	1485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	3.7
10°-20°	417.6	10.4
20°-30°	619.7	15.4
30°-40°	725.8	18.1
40°-50°	724.2	18.1
50°-60°	622.5	15.5
60°-70°	446.8	11.1
70°-80°	245.5	6.1
80°-90°	61.8	1.5
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°	1184.8	29.5
0°-40°	1910.5	47.6
0°-60°	3257.2	81.2
0°-90°	4011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1558	1556	1548	1558	1558	148
15°	1484	1482	1476	1484	1482	418
25°	1342	1342	1340	1352	1352	618
35°	1143	1147	1159	1175	1177	715
45°	908	918	940	958	958	702
55°	668	686	708	712	704	597
65°	433	453	459	451	447	430
75°	219	235	233	233	227	234
85°	54	56	52	46	48	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1564.0	1564.0	1564.0	1564.0	1564.0
2.5°	1564.0	1562.0	1554.0	1564.0	1564.0
5°	1558.0	1556.0	1548.0	1558.0	1558.0
7.5°	1544.0	1544.0	1536.0	1544.0	1546.0
10°	1527.9	1527.9	1519.9	1529.9	1527.9
12.5°	1509.9	1505.9	1501.9	1509.9	1507.9
15°	1483.8	1481.8	1475.8	1483.8	1481.8
17.5°	1457.8	1453.7	1449.7	1455.8	1451.7
20°	1421.7	1419.7	1413.6	1423.7	1423.7
22.5°	1385.6	1383.6	1381.6	1389.6	1391.6
25°	1341.5	1341.5	1339.5	1351.5	1351.5
27.5°	1297.3	1297.3	1299.3	1313.4	1315.4
30°	1249.2	1249.2	1255.2	1271.3	1273.3
32.5°	1195.1	1199.1	1209.1	1227.2	1229.2
35°	1142.9	1147.0	1159.0	1175.0	1177.0
37.5°	1088.8	1092.8	1108.9	1124.9	1128.9
40°	1030.7	1034.7	1056.7	1070.8	1070.8
42.5°	972.5	978.5	998.6	1016.6	1020.6
45°	908.3	918.4	940.4	958.5	958.5
47.5°	848.2	862.2	886.3	902.3	898.3
50°	788.0	802.1	826.1	840.2	838.2
52.5°	725.9	741.9	768.0	778.0	774.0
55°	667.7	685.8	707.8	711.8	703.8
57.5°	605.6	625.6	645.7	645.7	623.6
60°	551.4	567.5	587.5	565.5	561.4
62.5°	487.3	511.3	525.4	505.3	505.3
65°	433.1	453.2	459.2	451.2	447.2
67.5°	381.0	397.0	397.0	393.0	391.0
70°	322.8	340.9	340.9	334.9	330.9
72.5°	270.7	288.7	286.7	286.7	278.7
75°	218.6	234.6	232.6	232.6	226.6
77.5°	174.4	182.5	186.5	180.5	178.5
80°	128.3	136.4	138.4	132.3	130.3
82.5°	86.2	94.2	94.2	90.2	86.2
85°	54.1	56.1	52.1	46.1	48.1
87.5°	24.1	22.1	18.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)