

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: P220253

Luminaire Tested: **Z3-WL-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220253  
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-1L35-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3091.8 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

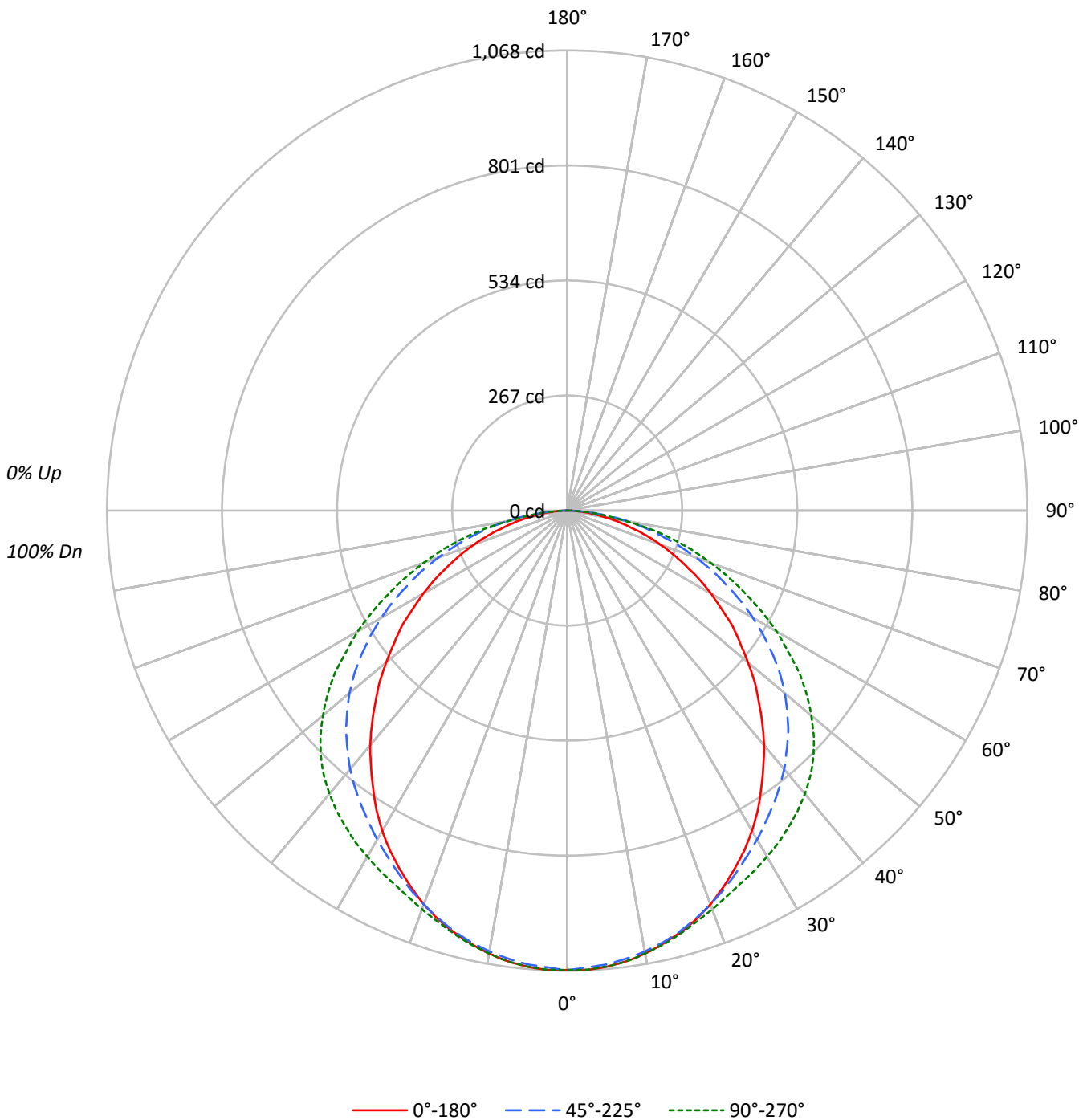
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1435	1435	1435
5°	1435	1428	1435
10°	1426	1419	1426
15°	1412	1409	1416
20°	1393	1393	1410
25°	1364	1377	1417
30°	1333	1370	1441
35°	1291	1370	1472
40°	1249	1377	1508
45°	1198	1381	1538
50°	1147	1380	1549
55°	1101	1367	1544
60°	1038	1340	1510
65°	968	1296	1456
70°	903	1245	1389
75°	801	1178	1305
80°	704	1099	1044
85°	599	866	851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	3.3
10°-20°	286.0	9.3
20°-30°	430.7	13.9
30°-40°	524.7	17.0
40°-50°	556.3	18.0
50°-60°	511.2	16.5
60°-70°	391.6	12.7
70°-80°	228.9	7.4
80°-90°	61.7	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°	817.4	26.4
0°-40°	1342.1	43.4
0°-60°	2409.6	77.9
0°-90°	3091.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1062	1060	1057	1062	1062	101
15°	1013	1013	1011	1016	1016	286
25°	918	923	928	947	954	423
35°	786	796	834	880	896	492
45°	630	654	726	788	808	486
55°	469	506	583	640	658	417
65°	304	344	407	449	457	303
75°	154	189	227	249	251	166
85°	39	54	56	57	55	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1067.5	1065.4	1061.3	1066.4	1066.4
5°	1062.4	1060.3	1057.3	1062.4	1062.4
7.5°	1055.2	1053.2	1049.1	1055.2	1055.2
10°	1044.0	1043.0	1038.9	1045.0	1044.0
12.5°	1029.7	1029.7	1026.6	1031.7	1031.7
15°	1013.4	1013.4	1011.3	1016.4	1016.4
17.5°	995.0	995.0	993.0	1000.1	1000.1
20°	972.6	970.5	972.6	982.8	984.8
22.5°	946.0	947.0	951.1	964.4	968.5
25°	918.5	922.6	927.7	947.0	954.2
27.5°	889.9	894.0	904.2	931.7	941.9
30°	858.3	863.4	881.7	915.4	927.7
32.5°	823.6	831.7	857.2	899.1	913.4
35°	785.8	796.0	833.8	879.7	896.0
37.5°	748.0	762.3	809.3	861.3	878.7
40°	711.3	726.6	783.8	839.9	858.3
42.5°	670.5	690.9	754.2	814.4	835.8
45°	629.7	654.2	725.6	787.8	808.3
47.5°	590.9	617.4	692.9	757.2	776.6
50°	548.0	582.7	659.3	720.5	739.9
52.5°	506.2	543.9	622.5	684.8	701.1
55°	469.4	506.2	582.7	639.9	658.2
57.5°	424.5	468.4	540.9	595.0	607.2
60°	385.8	423.5	498.0	548.0	561.3
62.5°	346.0	386.8	454.1	497.0	510.3
65°	304.1	343.9	407.2	449.0	457.2
67.5°	267.4	306.2	364.3	396.0	406.2
70°	229.6	263.3	316.4	348.0	353.1
72.5°	192.9	226.6	272.5	297.0	304.1
75°	154.1	188.8	226.6	249.0	251.0
77.5°	122.5	152.1	184.7	197.0	198.0
80°	90.8	117.4	141.9	140.8	134.7
82.5°	62.3	82.7	95.9	93.9	89.8
85°	38.8	54.1	56.1	57.1	55.1
87.5°	17.3	21.4	23.5	23.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)