

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: P220185

Luminaire Tested: **Z3-WN-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-5L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3871.3 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

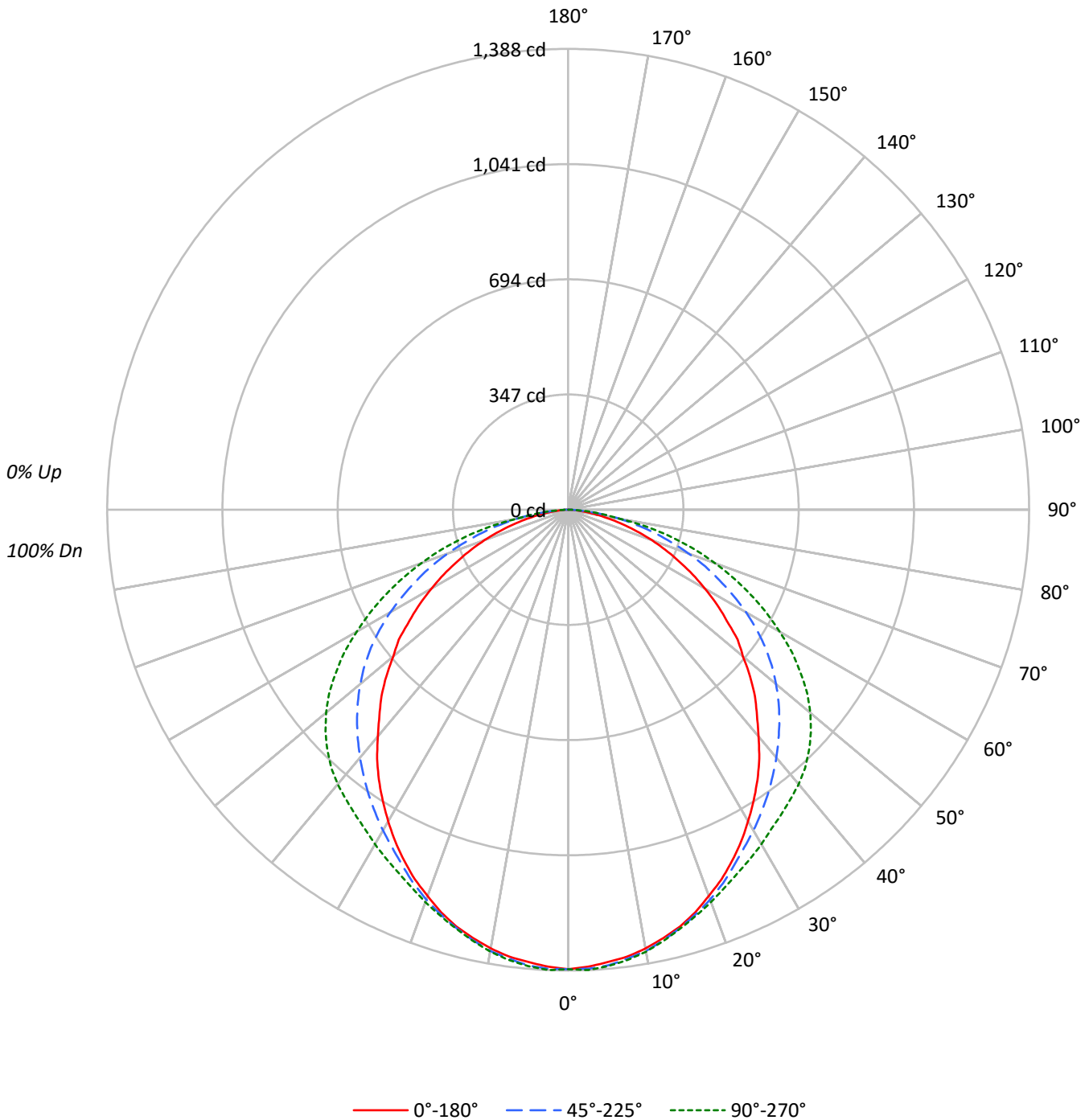
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	3724	3724	3724
5°	3695	3722	3727
10°	3666	3688	3694
15°	3621	3632	3638
20°	3544	3578	3601
25°	3467	3508	3586
30°	3366	3466	3615
35°	3263	3441	3677
40°	3131	3426	3792
45°	3025	3422	3902
50°	2876	3421	3982
55°	2734	3401	4002
60°	2554	3330	3955
65°	2346	3200	3864
70°	2111	3041	3703
75°	1770	2790	3394
80°	1365	2452	2483
85°	988	1670	1794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.4
10°-20°	367.5	9.5
20°-30°	546.7	14.1
30°-40°	658.4	17.0
40°-50°	697.2	18.0
50°-60°	644.7	16.7
60°-70°	491.0	12.7
70°-80°	273.3	7.1
80°-90°	62.2	1.6
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°	1044.6	27.0
0°-40°	1703.0	44.0
0°-60°	3044.9	78.7
0°-90°	3871.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1368	1372	1378	1380	1380	130
15°	1300	1302	1304	1306	1306	366
25°	1168	1170	1182	1198	1208	537
35°	993	1003	1047	1099	1119	620
45°	795	819	899	989	1025	611
55°	583	631	725	819	853	522
65°	368	416	503	579	607	366
75°	170	208	268	312	326	182
85°	32	44	54	58	58	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1383.8	1383.8	1383.8	<i>1383.8</i>	1383.8
2.5°	<i>1377.8</i>	<i>1379.8</i>	<i>1383.8</i>	<i>1387.8</i>	<i>1387.8</i>
5°	1367.8	1371.8	1377.8	<i>1379.8</i>	1379.8
7.5°	1357.8	1359.8	1363.8	<i>1367.8</i>	1367.8
10°	1341.7	1343.7	1349.7	<i>1351.7</i>	1351.7
12.5°	1321.7	1323.7	1327.7	<i>1329.7</i>	1329.7
15°	1299.7	1301.7	1303.7	<i>1305.7</i>	1305.7
17.5°	1271.6	1273.6	1277.6	<i>1281.7</i>	1281.7
20°	1237.6	1243.6	1249.6	<i>1253.6</i>	1257.6
22.5°	1205.6	1207.6	1217.6	<i>1227.6</i>	1231.6
25°	1167.5	1169.5	1181.5	<i>1197.5</i>	1207.6
27.5°	1127.5	1133.5	1147.5	<i>1175.5</i>	1185.5
30°	1083.4	1091.4	1115.4	<i>1149.5</i>	1163.5
32.5°	1039.3	1047.4	1081.4	<i>1123.5</i>	1139.5
35°	993.3	1003.3	1047.4	<i>1099.4</i>	1119.4
37.5°	945.2	957.2	1011.3	<i>1073.4</i>	1099.4
40°	891.2	911.2	975.3	<i>1047.4</i>	1079.4
42.5°	841.1	865.1	937.2	<i>1019.3</i>	1055.4
45°	795.0	819.1	899.2	<i>989.3</i>	1025.3
47.5°	743.0	773.0	859.1	<i>955.2</i>	991.3
50°	686.9	724.9	817.1	<i>915.2</i>	951.2
52.5°	642.8	676.9	773.0	<i>871.1</i>	907.2
55°	582.8	630.8	724.9	<i>819.1</i>	853.1
57.5°	530.7	574.7	672.9	<i>765.0</i>	799.0
60°	474.6	520.7	618.8	<i>704.9</i>	734.9
62.5°	422.5	466.6	560.7	<i>644.8</i>	672.9
65°	368.5	416.5	502.6	<i>578.7</i>	606.8
67.5°	316.4	362.5	446.6	<i>516.7</i>	538.7
70°	268.3	308.4	386.5	<i>444.6</i>	470.6
72.5°	216.3	256.3	324.4	<i>378.5</i>	400.5
75°	170.2	208.3	268.3	<i>312.4</i>	326.4
77.5°	126.2	162.2	210.3	<i>244.3</i>	250.3
80°	88.1	118.2	158.2	<i>164.2</i>	160.2
82.5°	56.1	78.1	100.1	<i>102.1</i>	102.1
85°	32.0	44.1	54.1	<i>58.1</i>	58.1
87.5°	12.0	16.0	20.0	<i>20.0</i>	20.0
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)