

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: P220049

Luminaire Tested: **Z3-WN-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-3L35-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3820.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

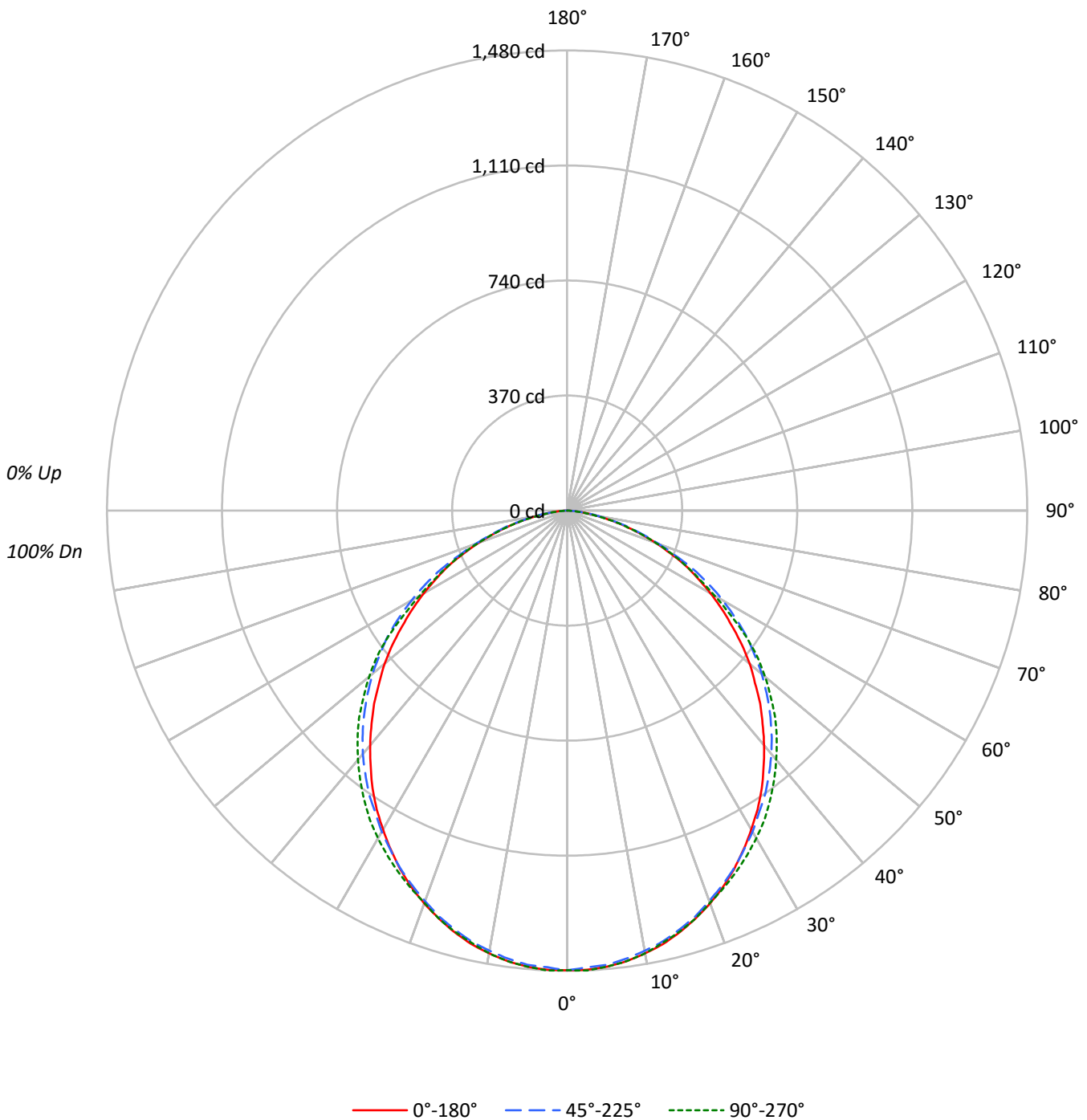
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

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

	0°	45°	90°
0°	3978	3978	3978
5°	3977	3961	3977
10°	3951	3929	3951
15°	3909	3887	3904
20°	3850	3827	3844
25°	3775	3769	3812
30°	3680	3705	3781
35°	3584	3651	3737
40°	3462	3590	3676
45°	3342	3511	3604
50°	3209	3422	3481
55°	3035	3301	3282
60°	2870	3111	2947
65°	2686	2854	2699
70°	2378	2457	2393
75°	2004	2109	2004
80°	1540	1602	1446
85°	939	939	815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	3.7
10°-20°	394.8	10.3
20°-30°	587.3	15.4
30°-40°	695.7	18.2
40°-50°	706.0	18.5
50°-60°	614.4	16.1
60°-70°	429.4	11.2
70°-80°	212.2	5.6
80°-90°	40.9	1.1
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°	1121.6	29.4
0°-40°	1817.2	47.6
0°-60°	3137.6	82.1
0°-90°	3820.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1472	1472	1466	1474	1472	140
15°	1403	1403	1395	1403	1401	395
25°	1272	1272	1270	1280	1284	585
35°	1091	1093	1111	1134	1138	681
45°	878	888	923	941	947	676
55°	647	675	704	706	700	580
65°	422	440	448	428	424	414
75°	193	207	203	193	193	206
85°	30	34	30	28	26	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1478.4	1478.4	1478.4	1478.4	1478.4
2.5°	1478.4	1478.4	1470.2	1478.4	1480.4
5°	1472.3	1472.3	1466.2	1474.3	1472.3
7.5°	1462.1	1460.1	1454.0	1460.1	1462.1
10°	1445.9	1443.9	1437.8	1445.9	1445.9
12.5°	1427.7	1425.6	1419.5	1425.6	1423.6
15°	1403.3	1403.3	1395.2	1403.3	1401.3
17.5°	1374.9	1374.9	1368.8	1372.9	1374.9
20°	1344.5	1344.5	1336.4	1346.5	1342.5
22.5°	1310.0	1310.0	1304.0	1314.1	1314.1
25°	1271.5	1271.5	1269.5	1279.6	1283.7
27.5°	1228.9	1230.9	1230.9	1247.2	1251.2
30°	1184.3	1186.3	1192.4	1212.7	1216.8
32.5°	1139.7	1141.7	1149.8	1174.2	1180.2
35°	1091.0	1093.0	1111.3	1133.6	1137.7
37.5°	1038.3	1044.4	1066.7	1089.0	1093.0
40°	985.6	991.7	1022.1	1040.3	1046.4
42.5°	930.8	943.0	973.4	991.7	997.7
45°	878.1	888.2	922.7	941.0	947.0
47.5°	819.3	833.5	870.0	888.2	888.2
50°	766.6	782.8	817.3	831.4	831.4
52.5°	707.7	730.1	758.4	774.7	770.6
55°	646.9	675.3	703.7	705.7	699.6
57.5°	590.1	616.5	640.8	638.8	620.5
60°	533.3	555.6	578.0	561.7	547.5
62.5°	474.5	498.9	515.1	488.7	482.6
65°	421.8	440.1	448.2	427.9	423.8
67.5°	358.9	381.2	375.2	369.1	365.0
70°	302.2	320.4	312.3	306.2	304.2
72.5°	245.4	263.6	255.5	251.5	245.4
75°	192.7	206.8	202.8	192.7	192.7
77.5°	142.0	154.1	148.0	144.0	142.0
80°	99.4	105.5	103.4	97.3	93.3
82.5°	58.8	66.9	62.9	58.8	56.8
85°	30.4	34.5	30.4	28.4	26.4
87.5°	10.1	10.1	8.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)