

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: P220006

Luminaire Tested: **Z3-WL-2L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220006  
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-2L35-LD5-UNV-14  
Description: CLASS Z3 1X4 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: 2998.5 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

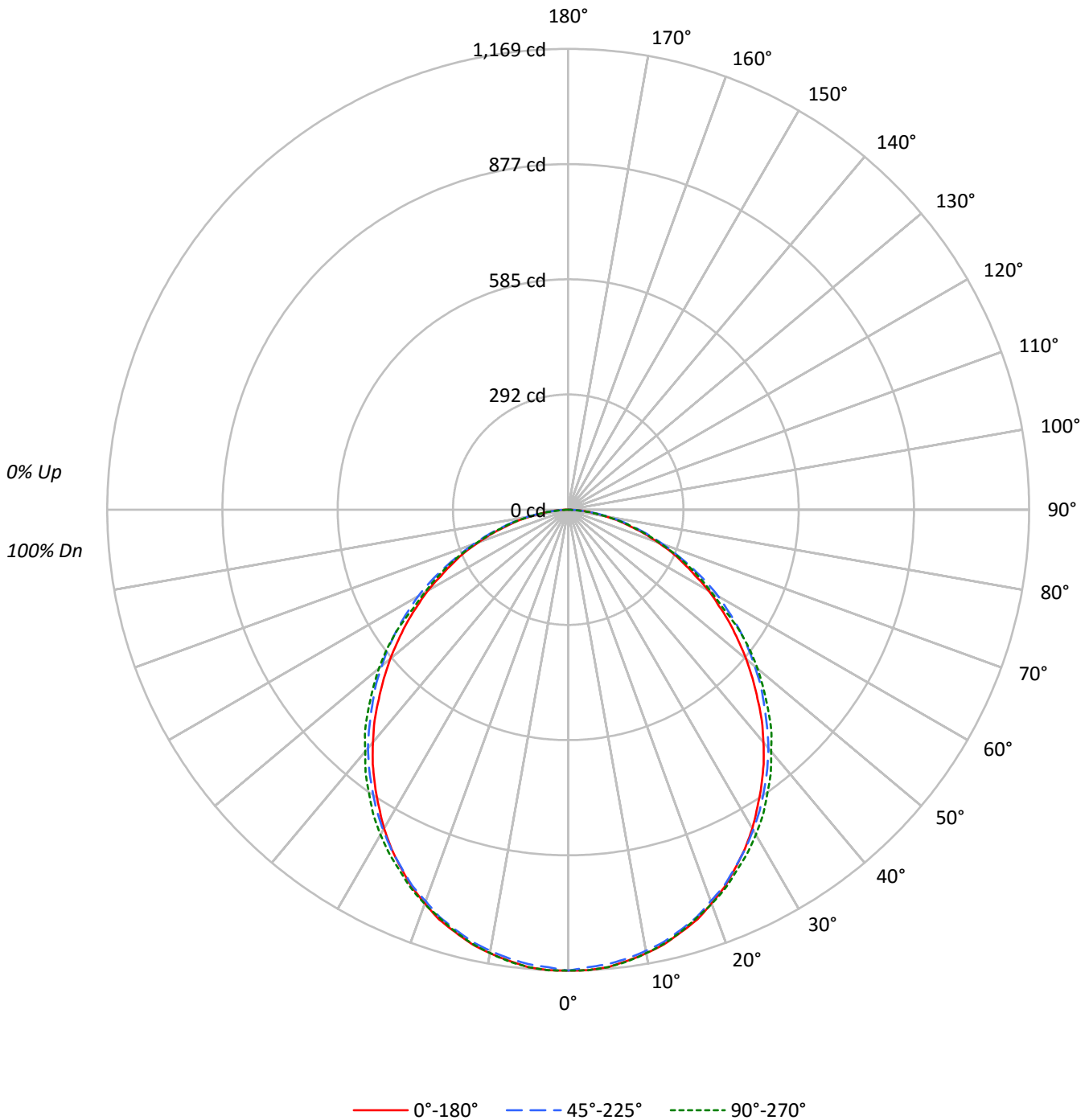
Input Watts (W): 23.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3146	3146	3146
5°	3146	3126	3146
10°	3121	3105	3121
15°	3090	3073	3086
20°	3043	3026	3048
25°	2977	2973	3000
30°	2902	2916	2958
35°	2807	2846	2891
40°	2706	2775	2812
45°	2584	2675	2727
50°	2466	2586	2623
55°	2342	2482	2468
60°	2218	2364	2259
65°	2062	2186	2129
70°	1899	2005	1946
75°	1699	1808	1761
80°	1486	1602	1509
85°	1250	1204	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	3.7
10°-20°	312.2	10.4
20°-30°	463.2	15.4
30°-40°	542.5	18.1
40°-50°	541.3	18.1
50°-60°	465.3	15.5
60°-70°	334.0	11.1
70°-80°	183.5	6.1
80°-90°	46.2	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°	885.7	29.5
0°-40°	1428.2	47.6
0°-60°	2434.8	81.2
0°-90°	2998.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1165	1163	1157	1165	1165	110
15°	1109	1108	1103	1109	1108	313
25°	1003	1003	1001	1010	1010	462
35°	854	857	866	878	880	534
45°	679	686	703	716	716	525
55°	499	513	529	532	526	446
65°	324	339	343	337	334	321
75°	163	175	174	174	169	175
85°	40	42	39	34	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.2	1169.2	1169.2	1169.2	1169.2
2.5°	1169.2	1167.7	1161.7	1169.2	1169.2
5°	1164.7	1163.2	1157.2	1164.7	1164.7
7.5°	1154.2	1154.2	1148.2	1154.2	1155.7
10°	1142.2	1142.2	1136.2	1143.7	1142.2
12.5°	1128.7	1125.7	1122.7	1128.7	1127.2
15°	1109.2	1107.7	1103.2	1109.2	1107.7
17.5°	1089.7	1086.7	1083.7	1088.2	1085.2
20°	1062.7	1061.2	1056.7	1064.2	1064.2
22.5°	1035.8	1034.3	1032.8	1038.8	1040.3
25°	1002.8	1002.8	1001.3	1010.3	1010.3
27.5°	969.8	969.8	971.3	981.8	983.3
30°	933.8	933.8	938.3	950.3	951.8
32.5°	893.4	896.4	903.9	917.3	918.8
35°	854.4	857.4	866.4	878.4	879.9
37.5°	813.9	816.9	828.9	840.9	843.9
40°	770.4	773.4	789.9	800.4	800.4
42.5°	727.0	731.5	746.5	760.0	763.0
45°	679.0	686.5	703.0	716.5	716.5
47.5°	634.0	644.5	662.5	674.5	671.5
50°	589.1	599.6	617.6	628.0	626.6
52.5°	542.6	554.6	574.1	581.6	578.6
55°	499.1	512.6	529.1	532.1	526.1
57.5°	452.7	467.7	482.7	482.7	466.2
60°	412.2	424.2	439.2	422.7	419.7
62.5°	364.2	382.2	392.7	377.7	377.7
65°	323.8	338.8	343.3	337.3	334.3
67.5°	284.8	296.8	296.8	293.8	292.3
70°	241.3	254.8	254.8	250.3	247.3
72.5°	202.4	215.8	214.3	214.3	208.4
75°	163.4	175.4	173.9	173.9	169.4
77.5°	130.4	136.4	139.4	134.9	133.4
80°	95.9	101.9	103.4	98.9	97.4
82.5°	64.5	70.4	70.4	67.5	64.5
85°	40.5	42.0	39.0	34.5	36.0
87.5°	18.0	16.5	13.5	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)