

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: P220132

Luminaire Tested: **Z3-WL-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-3L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3006.3 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

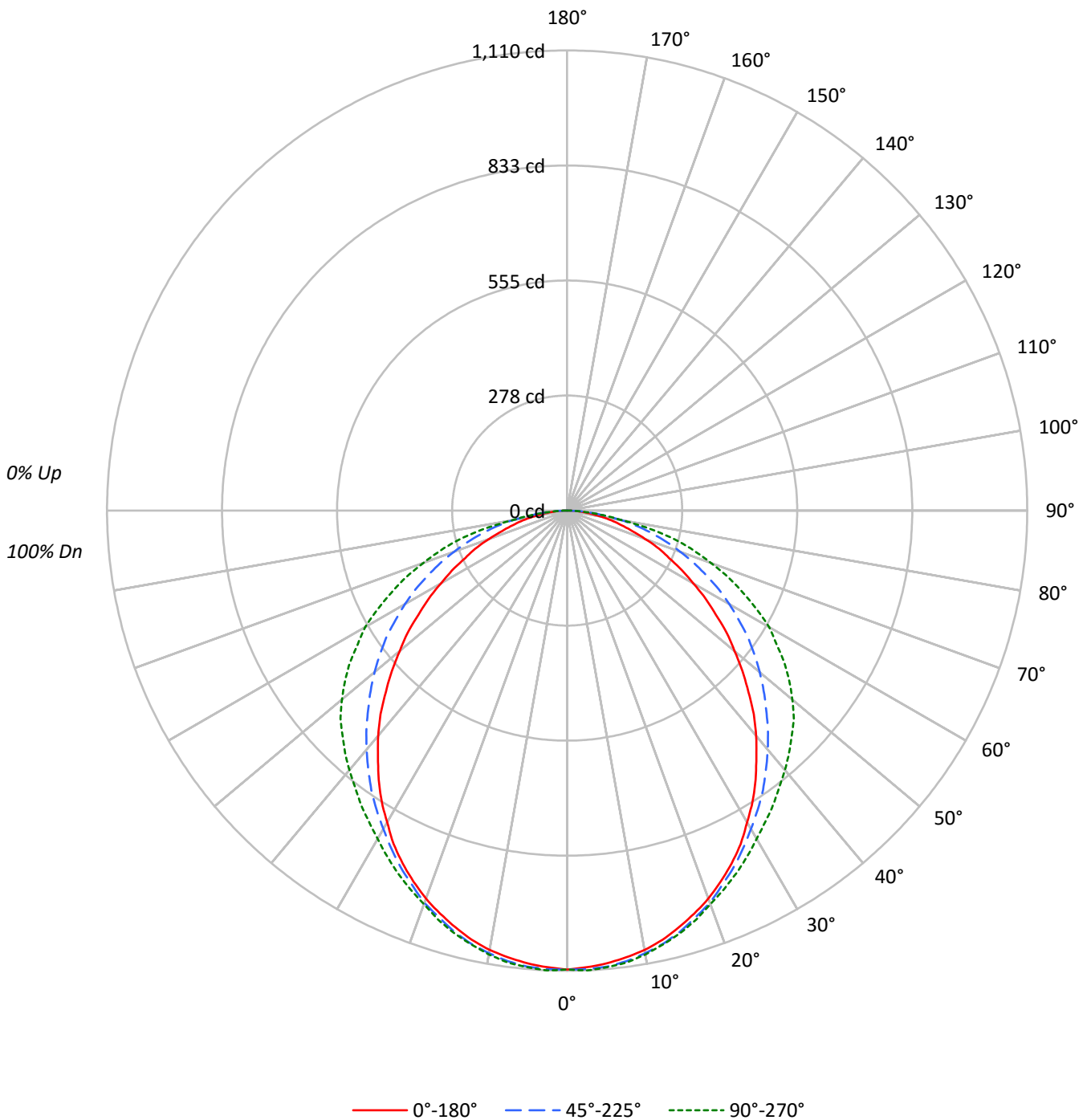
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2979	2979	2979
5°	2962	2982	2987
10°	2941	2962	2971
15°	2900	2930	2939
20°	2853	2884	2893
25°	2788	2820	2866
30°	2698	2755	2841
35°	2604	2705	2847
40°	2492	2643	2871
45°	2353	2582	2917
50°	2208	2537	2970
55°	2054	2496	3003
60°	1892	2432	3030
65°	1728	2357	2975
70°	1578	2281	2900
75°	1411	2197	2806
80°	1243	2055	2103
85°	1096	1618	1572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	3.5
10°-20°	295.7	9.8
20°-30°	438.1	14.6
30°-40°	516.4	17.2
40°-50°	529.6	17.6
50°-60°	478.8	15.9
60°-70°	368.1	12.2
70°-80°	218.2	7.3
80°-90°	56.7	1.9
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°	838.5	27.9
0°-40°	1354.9	45.1
0°-60°	2363.3	78.6
0°-90°	3006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1096	1100	1104	1106	1106	104
15°	1041	1044	1052	1055	1055	293
25°	939	942	950	961	965	432
35°	793	797	824	853	867	495
45°	618	631	678	740	766	478
55°	438	469	532	606	640	393
65°	271	305	370	441	467	272
75°	136	162	211	256	270	145
85°	36	43	52	56	51	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1107.2	1107.2	1107.2	1107.2	1107.2
2.5°	1102.6	1104.1	1107.2	1110.3	1110.3
5°	1096.4	1099.5	1104.1	1105.7	1105.7
7.5°	1087.2	1090.2	1096.4	1098.0	1099.5
10°	1076.4	1077.9	1084.1	1087.2	1087.2
12.5°	1060.9	1064.0	1070.2	1073.3	1071.7
15°	1040.9	1044.0	1051.7	1054.8	1054.8
17.5°	1019.3	1022.4	1028.6	1033.2	1034.7
20°	996.2	997.7	1007.0	1010.1	1010.1
22.5°	968.4	973.0	977.7	986.9	988.5
25°	939.1	942.2	949.9	960.7	965.3
27.5°	906.7	908.3	919.1	936.0	940.7
30°	868.2	874.4	886.7	908.3	914.4
32.5°	832.7	837.3	855.8	880.5	889.8
35°	792.6	797.2	823.5	852.8	866.6
37.5°	749.4	755.6	788.0	823.5	840.4
40°	709.4	717.1	752.5	797.2	817.3
42.5°	666.2	673.9	717.1	767.9	792.6
45°	618.4	630.7	678.5	740.2	766.4
47.5°	573.6	589.1	643.0	710.9	741.7
50°	527.4	549.0	606.0	680.1	709.4
52.5°	485.8	505.8	569.0	644.6	675.4
55°	437.9	468.8	532.0	606.0	640.0
57.5°	396.3	424.1	490.4	569.0	598.3
60°	351.6	382.4	451.8	527.4	562.9
62.5°	313.0	342.3	413.3	485.8	515.0
65°	271.4	305.3	370.1	441.0	467.2
67.5°	240.6	263.7	331.5	397.9	421.0
70°	200.5	228.2	289.9	350.0	368.6
72.5°	165.0	194.3	251.4	303.8	320.7
75°	135.7	161.9	211.3	256.0	269.9
77.5°	109.5	131.1	174.3	205.1	208.2
80°	80.2	98.7	132.6	140.3	135.7
82.5°	57.1	69.4	87.9	92.5	87.9
85°	35.5	43.2	52.4	55.5	50.9
87.5°	17.0	17.0	21.6	21.6	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)