

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: P220189

Luminaire Tested: **Z3-WN-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220189  
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-3L40-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3075.4 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

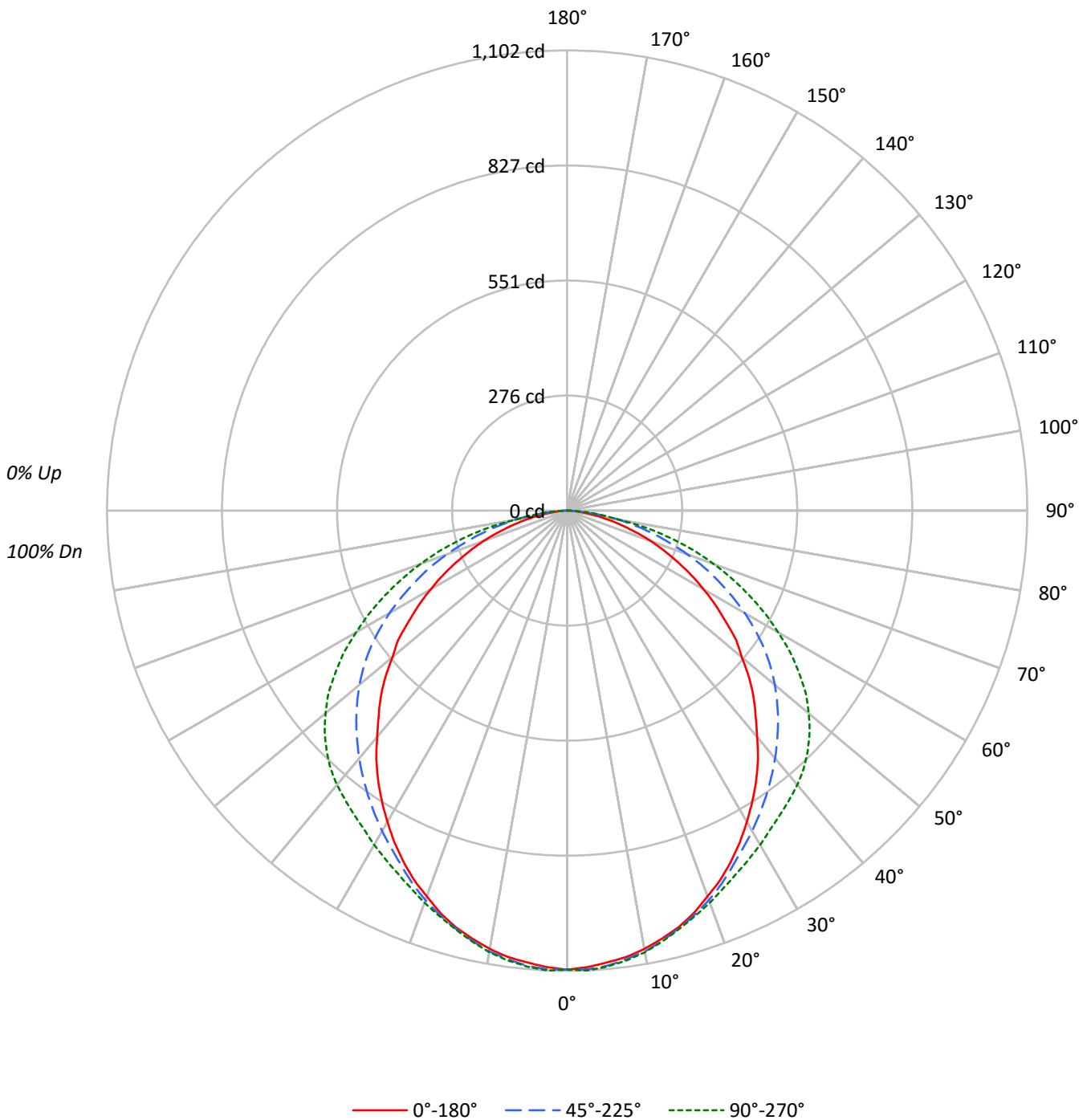
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2958	2958	2958
5°	2935	2957	2961
10°	2913	2930	2934
15°	2876	2885	2890
20°	2815	2843	2861
25°	2754	2787	2848
30°	2674	2753	2872
35°	2592	2733	2921
40°	2487	2721	3012
45°	2404	2718	3100
50°	2285	2717	3164
55°	2172	2702	3179
60°	2029	2646	3142
65°	1864	2543	3069
70°	1677	2415	2941
75°	1406	2217	2696
80°	1085	1948	1973
85°	787	1328	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	291.9	9.5
20°-30°	434.3	14.1
30°-40°	523.0	17.0
40°-50°	553.9	18.0
50°-60°	512.1	16.7
60°-70°	390.0	12.7
70°-80°	217.1	7.1
80°-90°	49.4	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°	829.8	27.0
0°-40°	1352.8	44.0
0°-60°	2418.8	78.7
0°-90°	3075.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1086	1090	1094	1096	1096	103
15°	1032	1034	1036	1037	1037	291
25°	928	929	939	951	959	427
35°	789	797	832	873	889	493
45°	632	651	714	786	814	486
55°	463	501	576	651	678	415
65°	293	331	399	460	482	291
75°	135	165	213	248	259	145
85°	26	35	43	46	46	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1094.5	1096.1	1099.3	1102.5	1102.5
5°	1086.5	1089.7	1094.5	1096.1	1096.1
7.5°	1078.6	1080.2	1083.4	1086.5	1086.5
10°	1065.9	1067.5	1072.2	1073.8	1073.8
12.5°	1050.0	1051.6	1054.7	1056.3	1056.3
15°	1032.5	1034.1	1035.6	1037.2	1037.2
17.5°	1010.2	1011.8	1015.0	1018.1	1018.1
20°	983.1	987.9	992.7	995.9	999.1
22.5°	957.7	959.3	967.2	975.2	978.4
25°	927.5	929.1	938.6	951.3	959.3
27.5°	895.6	900.4	911.6	933.8	941.8
30°	860.6	867.0	886.1	913.1	924.3
32.5°	825.6	832.0	859.1	892.5	905.2
35°	789.1	797.0	832.0	873.4	889.3
37.5°	750.9	760.4	803.4	852.7	873.4
40°	707.9	723.8	774.7	832.0	857.5
42.5°	668.2	687.2	744.5	809.7	838.4
45°	631.6	650.7	714.3	785.9	814.5
47.5°	590.2	614.1	682.5	758.8	787.5
50°	545.7	575.9	649.1	727.0	755.7
52.5°	510.7	537.7	614.1	692.0	720.7
55°	462.9	501.1	575.9	650.7	677.7
57.5°	421.6	456.6	534.5	607.7	634.7
60°	377.0	413.6	491.6	560.0	583.8
62.5°	335.7	370.7	445.4	512.3	534.5
65°	292.7	330.9	399.3	459.8	482.0
67.5°	251.4	287.9	354.8	410.4	427.9
70°	213.2	245.0	307.0	353.2	373.8
72.5°	171.8	203.6	257.7	300.7	318.2
75°	135.2	165.4	213.2	248.2	259.3
77.5°	100.2	128.9	167.0	194.1	198.9
80°	70.0	93.9	125.7	130.4	127.3
82.5°	44.5	62.0	79.5	81.1	81.1
85°	25.5	35.0	43.0	46.1	46.1
87.5°	9.5	12.7	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)